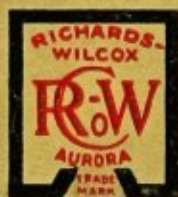


Richards-Wilcox

Door Hangers
Grindstones
Hardware
Specialties



Richards-Wilcox Mfg. Co.
AURORA, ILLINOIS, U.S.A.

Richards Wilcox

Specialties
Hardware
Grindstones
Door Hangers



Richards Wilcox W.C. Co.
Manufacturers W.C.A.

Catalog Number Twelve

Richards-Wilcox Mfg. Co.

Door Hangers, Grindstones and Hardware Specialties



W. H. Fitch.....President & General Manager
Lee Mighell.....Vice-President
Milton D. Jones.....Secretary & Treasurer
P. L. Hoffman.....Superintendent

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Chicago	15 East Lake Street
Philadelphia.....	50 North Sixth Street
St. Louis.....	1735-36 Monward Building
Boston.....	132 Pearl Street
Los Angeles.....	503 Equitable Building
San Francisco.....	324 Underwood Building
Richards-Wilcox Canadian Co., Ltd.....	London, Ontario

CANADIAN PLANT:

Richards-Wilcox Canadian Co., Ltd., London, Ontario

MAIN OFFICE AND WORKS:

AURORA, ILLINOIS, U. S. A.



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



MAIN OFFICE & WORKS

RICHARDS-WILCOX MANUFACTURING CO.
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RICHARDS-WILCOX CANADIAN CO. LTD., LONDON, ONTARIO



NEW YORK



IT IS our hope that you are all acquainted with "DOORWAYS." "DOORWAYS" is our house organ, a little magazine published every month, in two editions. The dealers' edition, 16,000, is mailed to our dealer customers, the architects' edition, 10,000, to architects and contractors. The reading matter in each edition is different, giving information desired by the dealer or the architect and contractor.

"DOORWAYS" tells the story of the R-W line in its own silent way, in illustration and selling talk. We try and keep the story interesting and helpful.

The best sellers and the new additions to the R-W Line are interestingly presented, and their strong features and best selling-talk points forcibly brought out.

It has always been our endeavor to have something interesting to say along the line of sales and advertising helps, and pointers for the clerk and house salesman. Stories of successful dealers who made their start as junior clerks and worked their way into the owners' chair—inspiring stories which should halt the faltering and urge on the leaders.

With each copy of "DOORWAYS" is included our monthly calendar, a daily reminder, which is as valued for its attractiveness as its usefulness.

Write us requesting that your name be placed on our mailing list.



Announcement

IN PRESENTING this, our No. 12 General Catalog, we feel that we are offering the best and most complete book of the kind ever issued. It is complete in detail, concise, so arranged and classified as to cover in the most brief and comprehensive manner the various lines we manufacture and sell.

This catalog supersedes all previous catalogs. On account of changes in catalog numbers and also list prices, all old issues should be destroyed. Discount sheets will be furnished upon application.

In arranging our records and collecting the necessary data, we have carefully considered the product and have selected such articles as in our judgment, are best suited to serve the purpose for which they were designed.

The descriptions have been prepared with the utmost care to cover the essential points clearly and concisely to represent the goods exactly as they are. All lists and tables have been revised up to the date of going to press and have been so arranged and tabulated as to make them, we believe, quickly and easily understood.

No labor or expense has been spared to make the illustrations as nearly as possible, exact reproductions of the goods themselves. Extra care has been used in compiling the index, to make it complete for ready reference and in assembling the entire book, we have endeavored to classify each different line of goods in the most appropriate manner.

Quality and thoroughness in conduct of every phase of this business will be constantly emphasized in such manner and degree as shall insure satisfaction to the trade. We are truly grateful to those who have so generously favored us with their patronage in the past and we are prepared with largely increased facilities to execute all orders with care and promptness.

Our branch houses are equipped to render efficient service on orders requiring quick action.

We solicit your orders and inquiries. Our factory is at your disposal and we are ready to extend every courtesy known in trade.

Very truly yours,

RICHARDS-WILCOX MFG. CO.

Notes of Importance

Request—On account of change in catalog numbers and price lists, destroy all old issues upon receipt of this, our No. 12 General Catalog.

Freight Rates—Freight rates from Aurora, are practically the same as from Chicago, Ill., excepting points west and south, where rates are slightly lower than Chicago. No charge for cartage or packing except in foreign shipments.

Shipping Facilities—Aurora is thirty-eight miles west of Chicago, located on the main line of the C. B. & Q. Ry. Co., (Hill System); C. & N. W.; E. J. & E. (known as the Outer Belt Line); and C. M. & G. Ry. Co. These lines assure us unsurpassed shipping facilities to all points.

Prices—Prices subject to change without notice. Discount sheets furnished on application. Estimates furnished on special work.

Terms—Unless otherwise specified or agreed upon, all bills are payable within sixty days net, or 2% in ten days from date of invoice, in funds current in New York or Chicago. Do not send us personal checks, as banks charge us exchange on same. For orders not paid at maturity, we will draw at sight after giving notice of our intention.

Deliveries—All deliveries are subject to delay due to strikes, fire, or other causes beyond our control. The prices are always to be understood to be F. O. B. cars at Aurora, Ill., except where otherwise specified or agreed upon. When prices are quoted, delivered, it refers to the freight charges only and not the safe delivery of the goods. Our responsibility as shipper ends with the delivery of goods at the railroad station or wharf, after proper shipping receipts have been issued to us. Parcel post packages sent at purchaser's risk, unless we are requested to insure.

Guarantee—We will replace, free of charge, any piece of goods sold by us, found defective on account of workmanship or material, but we will not be responsible for any goods, unless used according to directions.

Returned Goods—Do not return goods to us unless you have our permission to do so. We insist on express or freight bill of lading, on all return shipments. When writing, mention our invoice number and date on which goods were billed to you. Upon arrival of returned goods in good condition, transportation charges prepaid, we will render credit for the full value of such material, less 10%, which is to cover the expense of handling, drayage, inspection, refinishing, etc. When goods are special, their return cannot be authorized. All goods returned without authority from us will be refused.

Claims—Claims for errors and omissions, must be made within five days after receipt of goods. Errors are made by the best of us and we stand ready to correct at any time, errors on our part, and expect our customers to accept liability for their own mistakes.

Weights—Weights given are only approximate and are in no case guaranteed, owing to variation in stock from which goods are manufactured.

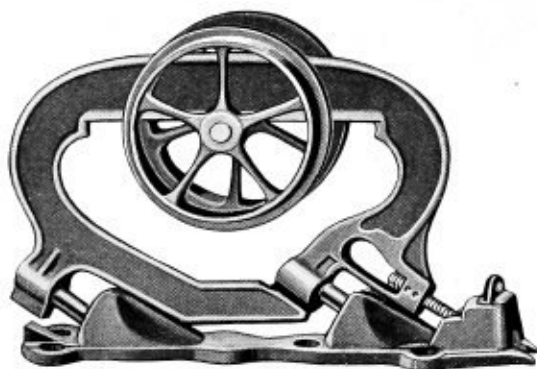
Ordering—Be sure in ordering to use the *Catalog Number*, also class and size of goods to avoid errors. State how you want the goods sent, by freight, express or parcel post. Under no circumstances, do we allow express charges or parcel postage.

Engineering Department—We gladly offer the services of our Engineering Department, to those of our customers who have special requirements to meet. Blue prints showing the special goods in detail, also erection of same, furnished when required.



No. 3 R-W Improved House Door Hanger

(Wilcox No. 101)



Clearance required
above top of
door, $7\frac{1}{2}$ inches.

From top of
door to top
of track,
 $23\frac{3}{4}$ inches.

Minimum width
of wall pocket,
3 inches.

Track, hard maple; full sets for 7-foot double; half sets for 4-foot single opening. Wheels, grey iron, lathe turned, 4 inches diameter. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 22 pounds; track, 12 pounds.

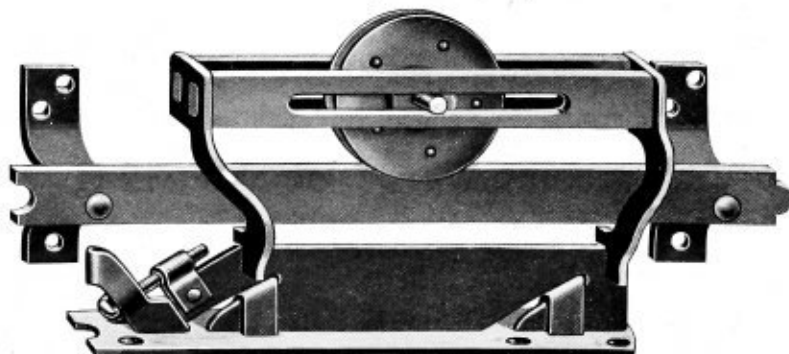
PRICE LIST

Full set including track.....	\$6.00
Half set including track.....	3.00

Discount.....

No. 8 R-W Seal Single-Track Steel House Door Hanger

(Wilcox No. 113)



Clearance required
above top of door,
 $7\frac{1}{2}$ inches.

From top of door
to top of track,
 $33\frac{3}{4}$ inches.

Minimum width
of wall pocket,
3 inches.

Track, $1\frac{1}{4} \times \frac{3}{16}$ -inch steel, No. 63 type; full sets for 7-foot double; half sets for 4-foot single opening. Wheels, steel, $3\frac{3}{8}$ inches diameter with vulcanized fibre centers. Bearings, anti-friction. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, $13\frac{1}{2}$ pounds; track, 14 pounds.

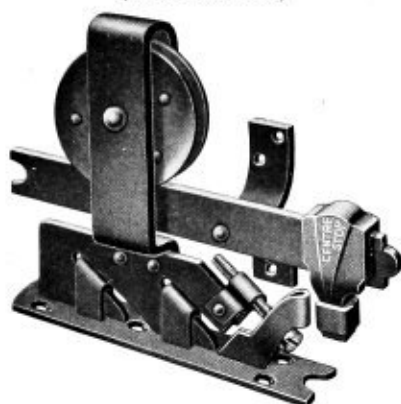
PRICE LIST

Full set including track (14 ft.).....	\$6.00
Half set including track (8 ft.).....	3.00
Extra track, No. 63, per foot.....	.08

Discount.....

No. 12 R-W Model Roller-Bearing Steel Single-Track House Door Hanger

(WILCOX No. 117)



Clearance required
above top of door,
7½ inches.

From top of door
to top of track,
3½ inches.

Minimum width
of wall pocket,
3 inches.

Track, 1¼ x ¾-inch steel, No. 63 type; full sets for 7-foot double; half sets for 4-foot single opening. Wheels, steel, 3⅜ inches diameter with vulcanized fibre centers. Bearings, steel rollers. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 10 pounds; track, 14 pounds.

PRICE LIST

Full set including track (14 ft.)	\$6.00
Half set including track (8 ft.)	3.00
Extra track, No. 63, per foot	.08

Discount.....

No. 13 R-W Champion Ball-Bearing Single-Track Steel House Door Hanger

(WILCOX No. 115)



Clearance required
above top of door,
7½ inches.

From top of door
to top of track,
3¼ inches.

Minimum width
of wall pocket,
3 inches.

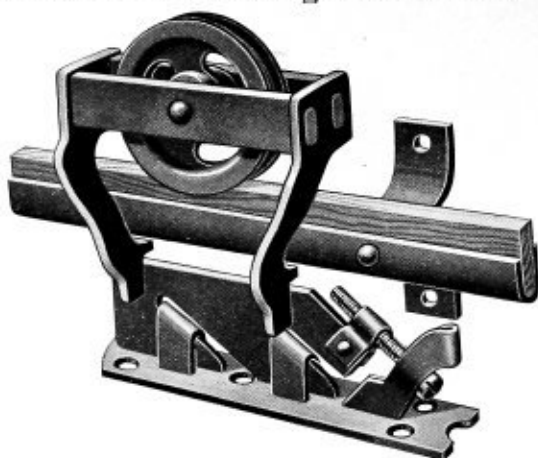
Track, 1¼ x ¾-inch steel, No. 63 type; full sets for 7-foot double; half sets for 4-foot single opening. Wheels, steel, 3⅜ inches diameter with vulcanized fibre centers. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 10½ pounds; track, 14 pounds.

PRICE LIST

Full set including track (14 ft.)	\$6.00
Half set including track (8 ft.)	3.00
Extra track, No. 63, per foot	.08

Discount.....

No. 9 R-W Rambler Ball-Bearing House Door Hanger



Clearance required
above top of door,
7½ inches.

From top of door
to top of track,
3¾ inches.

Minimum width
of wall pocket,
3 inches.

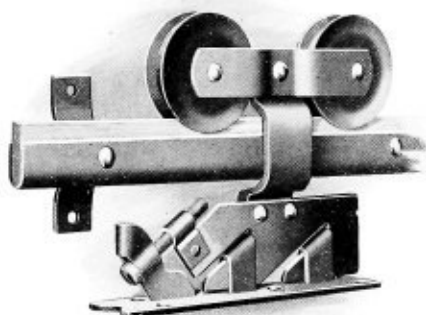
Track, hard maple and steel, No. 9 type; full sets for 7-foot double; half sets for 4-foot single opening. Wheels, grey iron, lathe turned, 3 inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 10¾ pounds; track, 10 pounds.

PRICE LIST

Full set including track (14 ft.)	\$6.00
Half set including track (8 ft.)	3.00
Extra track, No. 9, per foot	.08

Discount.....

No. 11 R-W XXX Brass Bushed Bearing House Door Hanger



Clearance required
above top of door,
7 inches.

From top of door,
to top of track,
3¾ inches.

Minimum width
of wall pocket,
3 inches.

Track, hard maple and steel, No. 9 type; full sets for 7-foot double; half sets for 4-foot single opening. Wheels, steel, 2½ inches diameter with vulcanized fibre centers, noiseless. Bearings, brass bushed. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 9 pounds; track, 8¾ pounds.

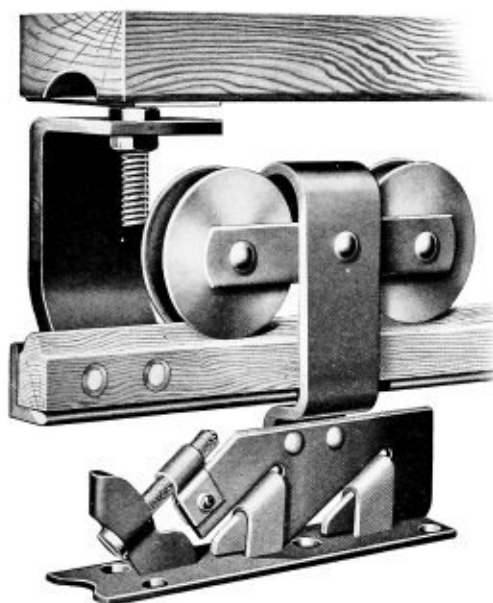
PRICE LIST

Full set including track (14 ft.)	\$6.00
Half set including track (8 ft.)	3.00
Extra track, No. 9, per foot	.08

Discount.....

NOTE—No. 9 track is provided with cut-off slot one foot from each end, to allow for variation in size of opening.

No. 6 R-W Rex Brass Bushed Bearing House Door Hanger



Distance top of door to bottom of heading timber, 8½ inches.

Minimum width of wall pocket, 2¼ inches.

Track can be easily removed without injury to plastered walls.

Track, hard maple runway, reinforced by heavy steel angle, No. 6 type, furnished with wood header, adjustable as illustrated. Wheels, steel, 2½ inches diameter, with vulcanized fibre centers, noiseless. Bearings, brass bushed. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 9½ pounds; track, per foot, 2¼ pounds.

PRICE LIST OF HANGERS AND TRACK

DOUBLE DOORS			SINGLE DOORS		
Number	Width of Opening	List	Number	Width of Opening	List
6-24	4 feet	\$6.00	6-12½	2½ feet	\$3.00
6-24½	4½ feet	6.00	6-13	3 feet	3.00
6-25	5 feet	6.00	6-13½	3½ feet	3.25
6-25½	5½ feet	6.00	6-14	4 feet	3.50
6-26	6 feet	6.00	6-14½	4½ feet	3.75
6-26½	6½ feet	6.25	6-15	5 feet	4.00
6-27	7 feet	6.50	6-15½	5½ feet	4.50
6-27½	7½ feet	6.75	6-16	6 feet	4.75
6-28	8 feet	7.00	6-16½	6½ feet	5.00
6-29	9 feet	7.50	6-17	7 feet	5.25
6-210	10 feet	8.00	6-17½	7½ feet	5.50
			6-18	8 feet	5.75

Hangers, for double doors, without track.....\$3.00
Hangers, for single doors, without track.....1.50

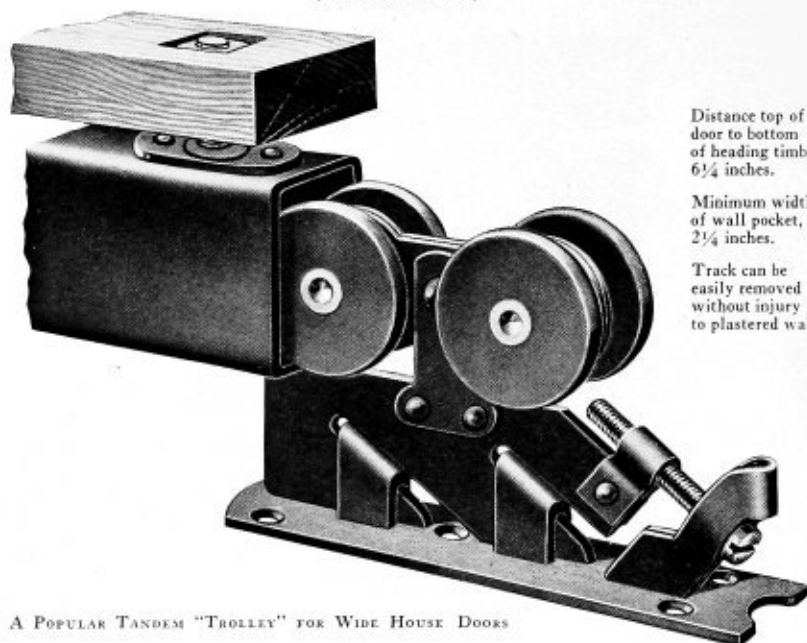
Discount.....

NOTE—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from list prices given for various lengths. Order by number.

For erecting plans, see page 15.

No. 16 R-W Twin Trolley Ball-Bearing House Door Hanger

(WILCOX No. 121)



Distance top of door to bottom of heading timber, 6¼ inches.

Minimum width of wall pocket, 2¼ inches.

Track can be easily removed without injury to plastered walls.

A POPULAR TANDEM "TROLLEY" FOR WIDE HOUSE DOORS

Track, No. 16 gauge steel, No. 19 type, furnished with wood header, adjustable as illustrated. Wheels, vulcanized fibre, 2½ inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 7 pounds; track, per foot, 2¼ pounds.

PRICE LIST OF HANGERS AND TRACK

DOUBLE DOORS			SINGLE DOORS		
Number	Width of Opening	List	Number	Width of Opening	List
16-24	4 feet	\$7.00	16-12½	2½ feet	\$3.50
16-24½	4½ feet	7.00	16-13	3 feet	3.50
16-25	5 feet	7.00	16-13½	3½ feet	3.75
16-25½	5½ feet	7.00	16-14	4 feet	4.00
16-26	6 feet	7.00	16-14½	4½ feet	4.25
16-26½	6½ feet	7.25	16-15	5 feet	4.50
16-27	7 feet	7.50	16-15½	5½ feet	5.00
16-27½	7½ feet	7.75	16-16	6 feet	5.25
16-28	8 feet	8.00	16-16½	6½ feet	5.50
16-29	9 feet	8.50	16-17	7 feet	5.75
16-210	10 feet	9.00	16-17½	7½ feet	6.00
			16-18	8 feet	6.25

Hangers only, double doors.....\$4.00
Hangers only, single doors.....2.00

Discount.....

NOTE—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from the list prices given for various lengths. Order by number.

For erecting plans, see page 15.

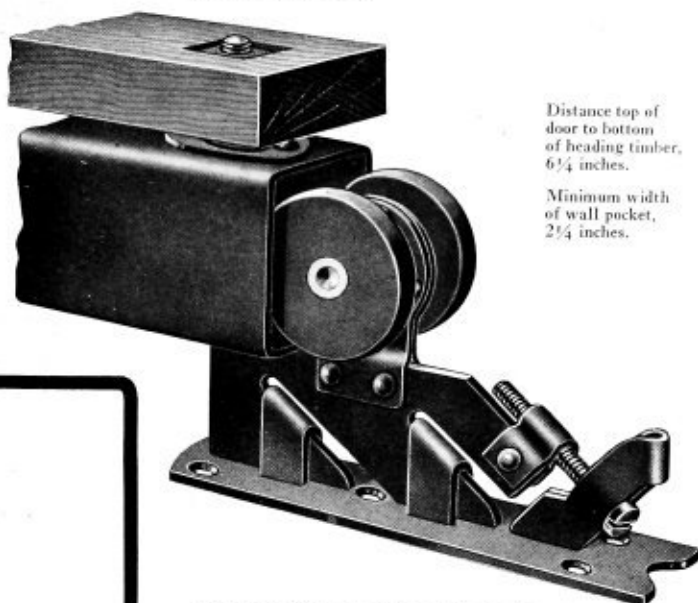
No. 19 R-W Hero Trolley Ball-Bearing House Door Hanger (WILCOX No. 119)

Track can be easily removed without injury to plastered walls.

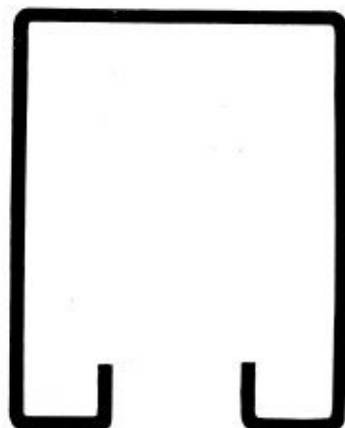
For doors wider than five feet we recommend No. 16 hangers.

Distance top of door to bottom of heading timber, 6¼ inches.

Minimum width of wall pocket, 2¼ inches.



THE MOST POPULAR "TROLLEY" FOR HOMES OF MODERATE COST



FULL SIZE CROSS SECTION OF NO. 19 TROLLEY TRACK, LESS HEADER

Track, No. 16 gauge steel, No. 19 type, furnished with wood header, adjustable as illustrated. Wheels, vulcanized fibre, 2½ inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 5½ pounds; track, per foot, 2¼ pounds.

PRICE LIST OF HANGERS AND TRACK

DOUBLE DOORS			SINGLE DOORS		
Number	Width of Opening	List	Number	Width of Opening	List
19-24	4 feet	\$6.00	19-12½	2½ feet	\$3.00
19-24½	4½ feet	6.00	19-13	3 feet	3.00
19-25	5 feet	6.00	19-13½	3½ feet	3.25
19-25½	5½ feet	6.00	19-14	4 feet	3.50
19-26	6 feet	6.00	19-14½	4½ feet	3.75
19-26½	6½ feet	6.25	19-15	5 feet	4.00
19-27	7 feet	6.50	19-15½	5½ feet	4.50
19-27½	7½ feet	6.75	19-16	6 feet	4.75
19-28	8 feet	7.00	19-16½	6½ feet	5.00
19-29	9 feet	7.50	19-17	7 feet	5.25
19-210	10 feet	8.00	19-17½	7½ feet	5.50
			19-18	8 feet	5.75

Hangers only, double doors.....\$3.00
Hangers only, single doors.....1.50

Discount.....

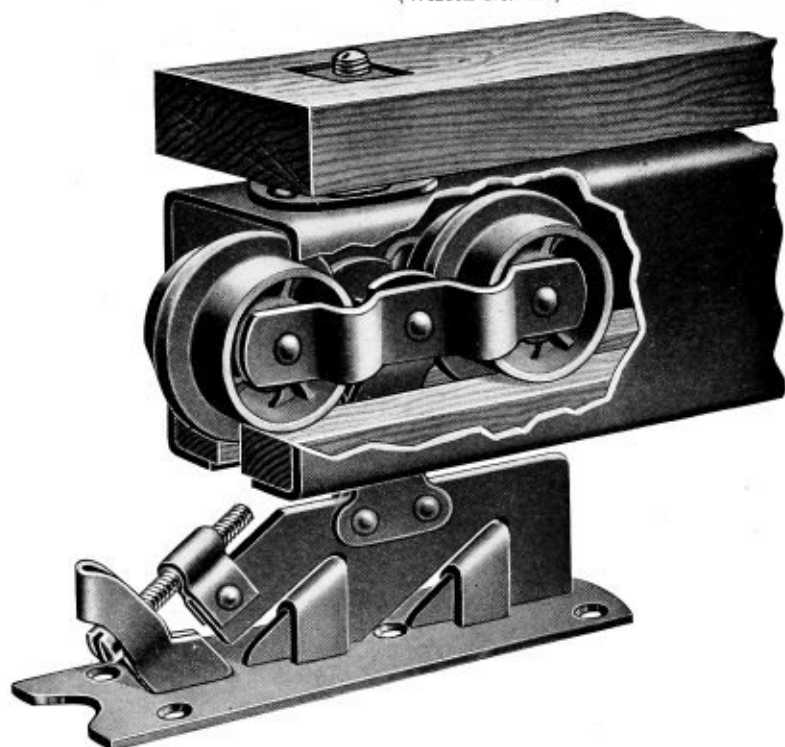
NOTE—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from list prices given for various lengths. Order by number.

For erecting plans, see page 15.

No. R-122

R-W Royal Ball-Bearing Trolley House Door Hanger

(WILCOX No. 222)



Distance top of door to bottom of heading timber, 7 1/4 inches.

Minimum width of wall pocket, 2 1/4 inches

Track can be easily removed without injury to plastered walls.

Track, No. 16 gauge steel and hard maple lined, No. R-122 type, furnished with wood header, adjustable as illustrated. Wheels, grey iron, lathe turned, 2 1/4 inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 9 1/2 pounds; track, per foot, 3 pounds.

PRICE LIST OF HANGERS AND TRACK

DOUBLE DOORS			SINGLE DOORS		
Number	Width of Opening	List	Number	Width of Opening	List
R122-24	4 feet	\$8.00	R122-12 1/2	2 1/2 feet	\$4.00
R122-24 1/2	4 1/2 feet	8.00	R122-13	3 feet	4.00
R122-25	5 feet	8.00	R122-13 1/2	3 1/2 feet	4.40
R122-25 1/2	5 1/2 feet	8.00	R122-14	4 feet	4.75
R122-26	6 feet	8.00	R122-14 1/2	4 1/2 feet	5.15
R122-26 1/2	6 1/2 feet	8.40	R122-15	5 feet	5.50
R122-27	7 feet	8.75	R122-15 1/2	5 1/2 feet	5.90
R122-27 1/2	7 1/2 feet	9.15	R122-16	6 feet	6.25
R122-28	8 feet	9.50	R122-16 1/2	6 1/2 feet	6.65
R122-29	9 feet	10.25	R122-17	7 feet	7.00
R122-210	10 feet	11.00	R122-17 1/2	7 1/2 feet	7.40
			R122-18	8 feet	7.75

Hangers only, double doors.....\$3.50
Hangers only, single doors..... 1.75

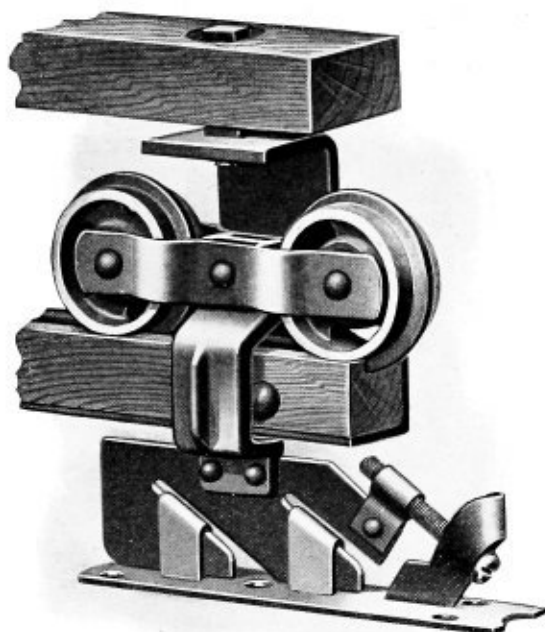
Discount.....

NOTE—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from list prices given for various lengths. Order by number.

For erecting plans, see page 15.

No. W-122

R-W Le Roy Ball-Bearing House Door Hanger



Distance top of door to bottom of heading timber, 8 inches.

Minimum width of wall pocket, 2½ inches.

Track can be easily removed without injury to plastered walls.

PATENTED

Track, hard maple runway, reinforced by heavy steel angle, No. W-122 type, furnished with wood header, adjustable as illustrated. Wheels, grey iron, lathe turned, 2½ inches diameter. Bearings, steel balls. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 9¼ pounds; track, per foot, 2½ pounds.

PRICE LIST OF HANGERS AND TRACK

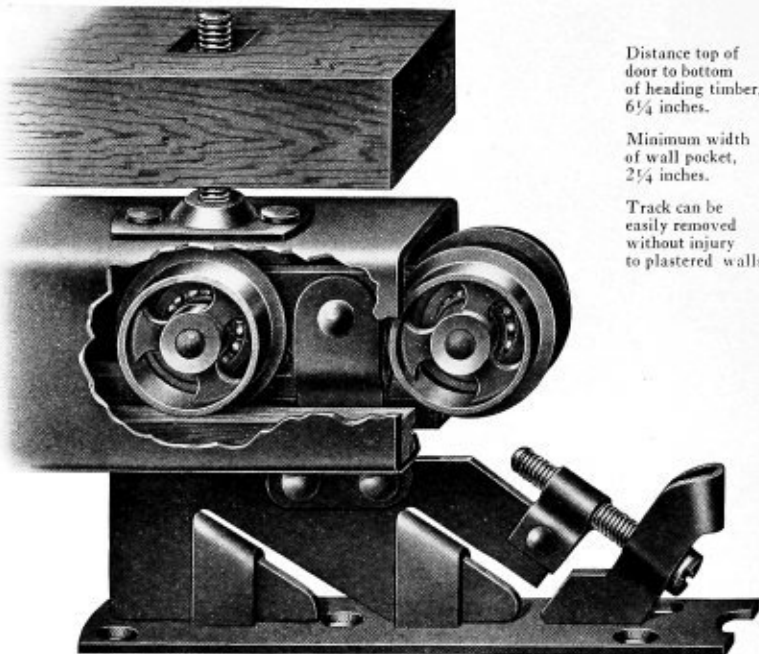
DOUBLE DOORS			SINGLE DOORS		
Number	Width of Opening	List	Number	Width of Opening	List
W122-24	4 feet	\$7.00	W122-12½	2½ feet	\$3.50
W122-24½	4½ feet	7.00	W122-13	3 feet	3.50
W122-25	5 feet	7.00	W122-13½	3½ feet	3.85
W122-25½	5½ feet	7.00	W122-14	4 feet	4.15
W122-26	6 feet	7.00	W122-14½	4½ feet	4.45
W122-26½	6½ feet	7.40	W122-15	5 feet	4.75
W122-27	7 feet	7.70	W122-15½	5½ feet	5.05
W122-27½	7½ feet	8.00	W122-16	6 feet	5.35
W122-28	8 feet	8.30	W122-16½	6½ feet	5.65
W122-29	9 feet	8.90	W122-17	7 feet	5.95
W122-210	10 feet	9.50	W122-17½	7½ feet	6.25
			W122-18	8 feet	6.55

Hangers only, double doors.....\$3.50
Hangers only, single doors.....1.75

Discount.....

NOTE—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from the list prices given for various lengths. Order by number.
For erecting plans, see page 15.

No. 221 R-W Advance Ball-Bearing Trolley House Door Hanger



Distance top of door to bottom of heading timber, 6¼ inches.

Minimum width of wall pocket, 2¼ inches.

Track can be easily removed without injury to plastered walls.

Track, No. 16 gauge steel and hard maple lined, No. 221 clincher type, furnished with wood header, adjustable as illustrated. Wheels, grey iron, lathe turned, 1½ inches diameter. Steel frames and hardened bearings. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight, full set: hangers, 8½ pounds; track, per foot, 2½ pounds.

PRICE LIST OF HANGERS AND TRACK

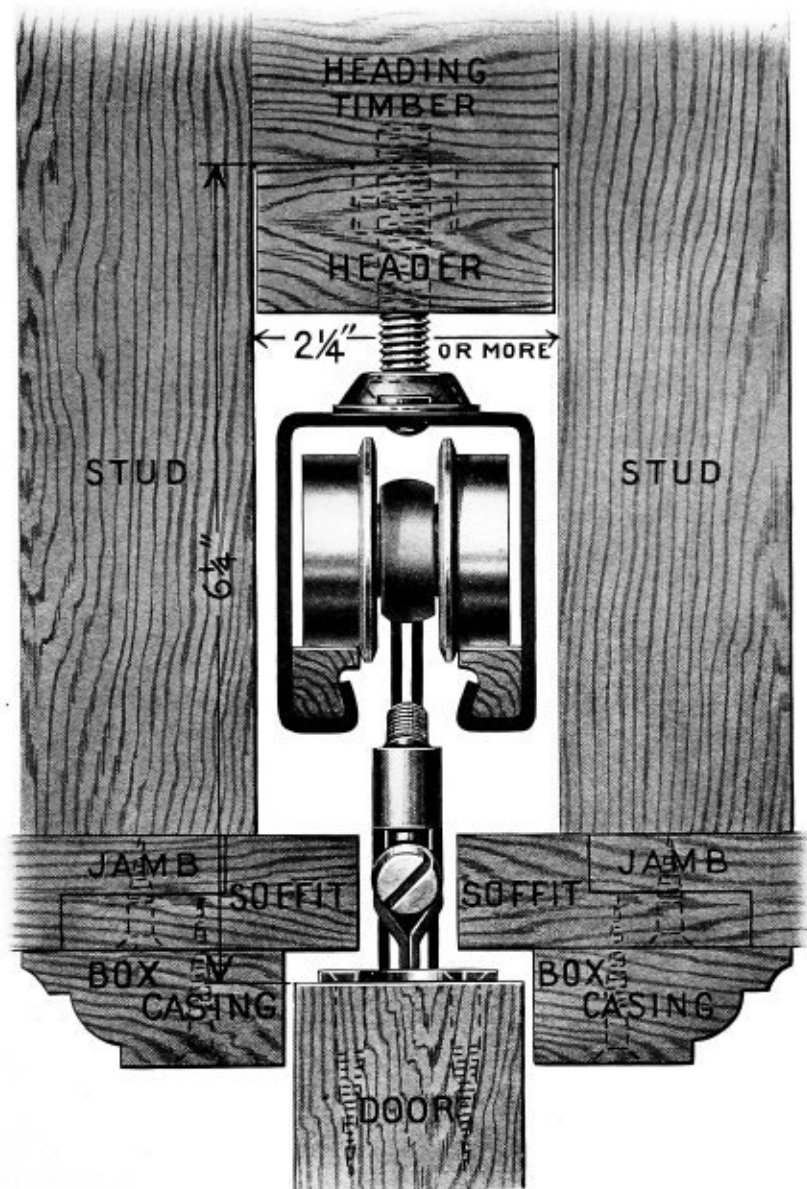
DOUBLE DOORS			SINGLE DOORS		
Number	Width of Opening	List	Number	Width of Opening	List
221-24	4 feet	\$8.00	221-12½	2½ feet	\$4.00
221-24½	4½ feet	8.00	221-13	3 feet	4.00
221-25	5 feet	8.00	221-13½	3½ feet	4.40
221-25½	5½ feet	8.00	221-14	4 feet	4.75
221-26	6 feet	8.00	221-14½	4½ feet	5.15
221-26½	6½ feet	8.40	221-15	5 feet	5.50
221-27	7 feet	8.75	221-15½	5½ feet	5.90
221-27½	7½ feet	9.15	221-16	6 feet	6.25
221-28	8 feet	9.50	221-16½	6½ feet	6.65
221-29	9 feet	10.25	221-17	7 feet	7.00
221-210	10 feet	11.00	221-17½	7½ feet	7.40
			221-18	8 feet	7.75

Hangers only, double doors.....\$3.50
Hangers only, single doors.....1.75

Discount.....

NOTE—When ordering track without hangers, the list price is found by deducting the list price of hangers without track from the list prices given for various lengths. Order by number.

For erecting plans, see opposite page.



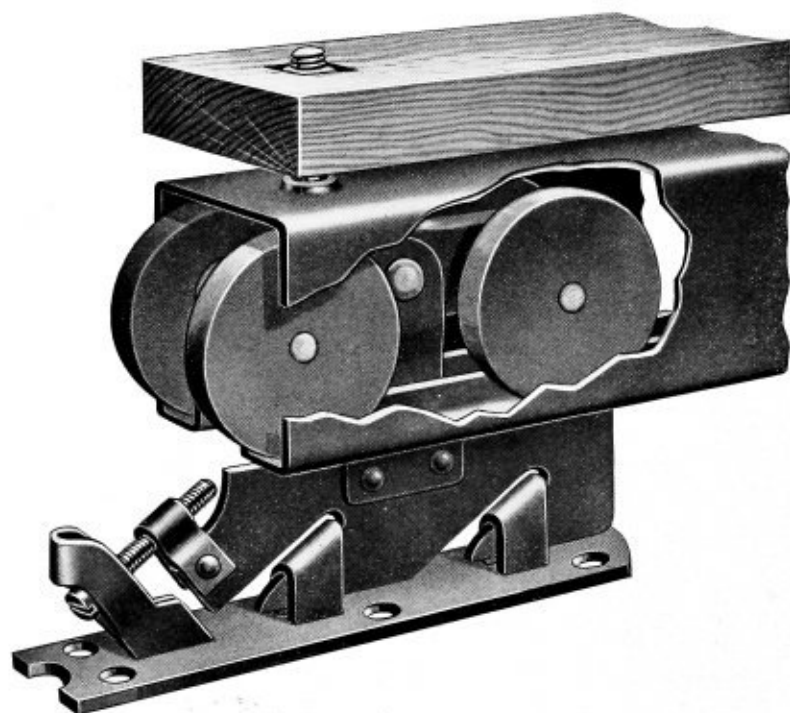
Above cut is a vertical cross section of No. 221 house door hanger and except as to measurements, also illustrates how our other styles of adjustable tracks and hangers are applied.

TABLE SHOWING DISTANCE TOP OF DOOR TO BOTTOM OF HEADING TIMBER

Number	Name	Page	Dis. Req'd	Number	Name	Page	Dis. Req'd
6	R-W Rex	9	8 1/2"	R122	R-W Royal	12	7 1/4"
16	R-W Twin	10	6 1/4"	W122	R-W Le Roy	13	8"
19	R-W Hero	11	6 1/4"	221	R-W Advance	14	6 1/4"

No. 4 R-W Trojan Trolley Ball-Bearing Door Hanger

DESIGNED FOR EXTREMELY HEAVY DOORS, AND ESPECIALLY ADAPTED
FOR POST OFFICE AND OTHER GOVERNMENT WORK



Distance top of door to bottom of heading timber, $8\frac{1}{2}$ inches.

Minimum width of wall pocket, $3\frac{1}{4}$ inches.

Track can be easily removed without injury to plastered walls.

Track, No. 14 gauge steel, No. 4 type, furnished with wood header, adjustable as illustrated. Wheels, vulcanized fibre, 3 inches diameter, for indoor service; metal, 3 inches diameter, for outdoor service. Fibre wheels furnished regular. Bearings, steel balls. One-piece drop forged steel frame. Finish, blue lacquer. Packed complete with screws, overhead center stop, and floor guides. Weight: hangers, per pair, 4 pounds; track, per foot, 4 pounds.

PRICE LIST

Hangers, fibre or metal wheel, per pair.....	\$6.00
Track, No. 4, per foot.....	.60

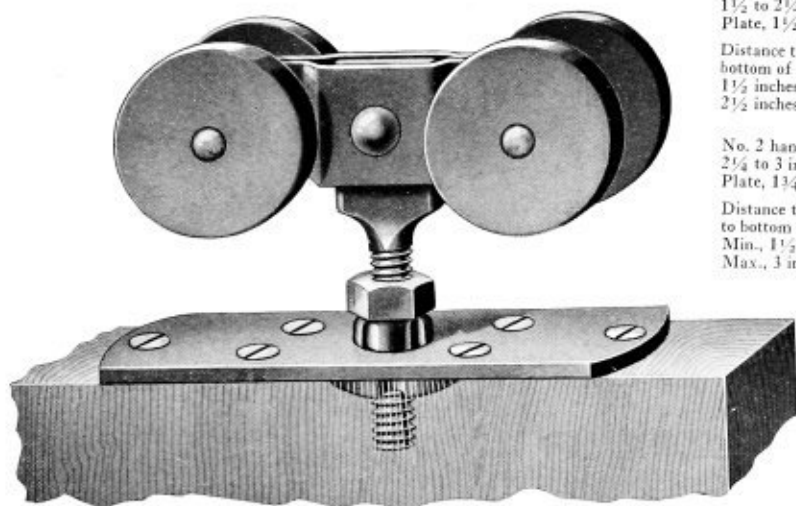
Discount.....

NOTE—Unless otherwise specified, we will furnish fibre wheels for inside doors.
For erecting plans, see page 15.

No. 140 R-W Reliable Roller-Bearing Trolley Door Hanger

(WILCOX No. 128)

MADE IN TWO SIZES: NO. 1 FOR NO. 31 TRACK, NO. 2 FOR NO. 33 TRACK



No. 1 hanger for doors
1½ to 2¼ inches thick.
Plate, 1½ x 1½ x 6 inches.

Distance top of door to
bottom of track: Min.,
1½ inches; Max.,
2½ inches.

No. 2 hanger for doors
2¼ to 3 inches thick.
Plate, 1¾ x 1½ x 10 inches.

Distance top of door
to bottom of track:
Min., 1½ inches;
Max., 3 inches.

Especially designed for parallel doors when it is desirable to attach hanger to top of door. Specify fibre wheel for inside work, metal wheel for outside work. For full size cross section of trolley track, see page 52. Track, for No. 1, No. 16 gauge steel, No. 31 type; for No. 2, No. 13 gauge steel, No. 33 type. Wheels, No. 1, vulcanized fibre, 2½ inches diameter, can furnish metal wheel if ordered; No. 2, vulcanized fibre, 3 inches diameter, can furnish metal wheel if ordered. Roller bearing. Adjustment, vertical only. Packed in bulk. Weight: hangers, per pair, No. 1, 3 pounds; No. 2, 11 pounds; track, per foot, No. 31, 1½ pounds; No. 33, 4 pounds.

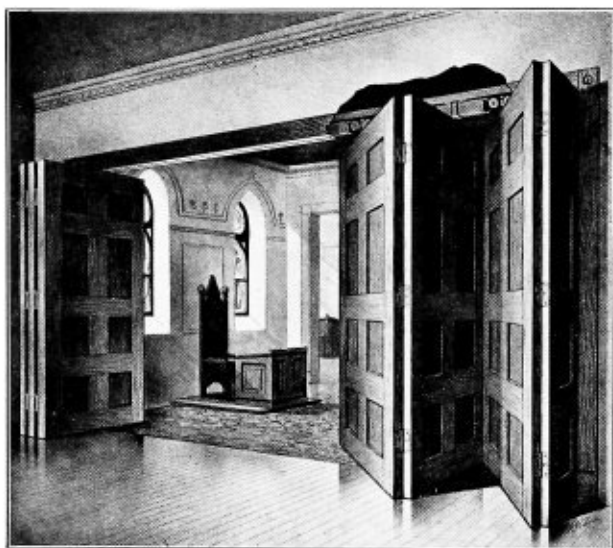
PRICE LIST

Hangers, No. 1, for No. 31 track, (fibre or metal wheel), per pair.....	\$2.50
Hangers, No. 2, for No. 33 track, (fibre or metal wheel), per pair.....	4.50
Track, No. 31, black, per foot.....	.19
Track, No. 33, black, per foot.....	.44
Brackets: For list prices and type desired see pages 50, 51.	

Discount.....

NOTE—Unless otherwise specified, we will furnish fibre wheels for inside doors.

R-W Sliding Accordion Folding Door Hangers



NOTE—Hangers are illustrated on pages 21, 22, 23. Also price lists. Customers are requested to note following information before ordering.

NUMBER OF HANGERS REQUIRED

Four-wheel hangers are preferable and when used one hanger is applied to each alternate door beginning with the door farthest from half-door. Our No. 135 or No. 335 hangers are suitable for this purpose, and will be found absolutely reliable and satisfactory. If it is desirable to install

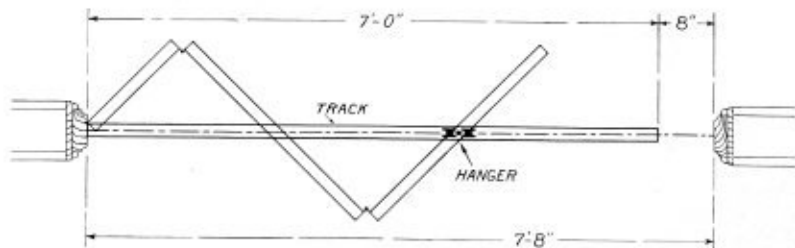


FIG. 1

a hanger on each door a two-wheel hanger is, of course, necessary, and we can highly recommend our No. 137 hanger for this purpose. Figs. 1 and 2 apply to four-wheel hangers only.

Figure 1 shows two full width doors and one half-width door. One hanger only is required for this number of doors, and is to be applied to door farthest from half-door.

Figure 2 shows three full width doors and one half-width door. Two hangers are required for this number of doors, hangers to be applied to every alternate door beginning with door farthest from hinge jamb.

Figure 1 shows that a piece of seven-foot track is needed. At side of opening farthest from hinge jamb an eight-inch space should be left between end of track and jamb. Below this point

R-W Sliding Accordion Folding Door Hangers

INFORMATION, CONTINUED

fit a removable section of soffit to enable the carpenter to remove or replace hanger. Figure 1 refers to a seven-foot opening only.

NOTE—When doors are folded to both sides, two pieces of track are needed. In the center of opening an eight-inch space should be left between ends of track, and below this point fit a removable section of soffit to enable the carpenter to replace or remove hanger.

NOTE—For full size cross section of trolley tracks, see page 52.

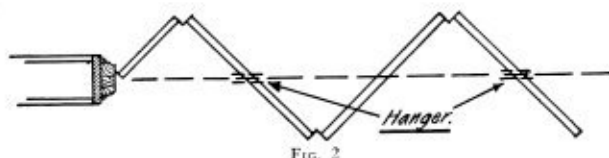
TRACK BRACKETS

Track brackets should be spaced 2-foot to 2½-foot centers, according to weight of doors. First three brackets over half-door should be spaced 1-foot to 1½-foot centers.

FULL SIZED DOORS

The width of full size doors and half doors depend upon the size, style and location of butts, thickness of doors and size of hanger used. Below we give rules which may be followed in determining size of doors.

All full size doors must be exactly the same width, with edges perfectly parallel and at right angles to top and bottom of door. Doors should not exceed 3 feet in width. To determine



width of full size doors, add dimension "B" (from table, Figure 3) to clear width of opening (i. e., actual space to be filled by the doors) and divide this sum by the number of full size doors plus ½.

Example: Clear width of opening = 24 feet; thickness of doors = 1½ inches; number of full size doors = 8; "B" for tight pin butts (from table) = 1 inch; 24 feet plus 1 inch = 289 inches; 289 ÷ 8½ = 34 inches, width of full size doors.

HALF DOOR

Width of half door = ½ width of full size door, less "B" from table.

In the above example, 34 ÷ 2 = 17 inches = ½ width of full size door. 17—"B" = 17-1 = 16 inches. Width of half door.

Hanger Number	Thickness of Doors Inches	Size of butts Inches	Distance from center of hinge pin to edge of door "A"		Distance from edge of half door to center line of hanger track "B"		Space between doors when folded "C"	
			Loose Pin Butts Inches	Tight Pin Butts Inches	Loose Pin Butts Inches	Tight Pin Butts Inches	Loose Pin Butts Inches	Tight Pin Butts Inches
135-0	1½	3 x 3	¼	¼	¾	¾	¾	¾
135-01	1½	3½ x 3½	¼	¼	1½	1½	¾	¾
135-1	2	4 x 4	¼	¼	1½	1½	¾	¾
135-1	2½	4 x 4	¼	¼	1½	1½	¾	¾
135-2	2½	5 x 5	¼	¼	1½	1½	¾	¾
335	1½	3 x 3	¼	¼	¾	¾	¾	¾
335	1½	3½ x 3½	¼	¼	1½	1½	¾	¾
137-0	1½	3 x 3	¼	¼	¾	¾	¾	¾
137-1	1½	3½ x 3½	¼	¼	1½	1½	¾	¾
137-2	2	4 x 4	¼	¼	1½	1½	¾	¾
137-2	2½	4 x 4	¼	¼	1½	1½	¾	¾

FIG. 3

R-W Sliding Accordion Folding Door Hangers

INFORMATION, CONCLUDED

HINGES

Care should be used to set hinges on same door exactly in line, observing dimension "A" in table (Figure 3). Loose pin butts are preferable, but tight pin butts may be used when it is desirable to fold doors as compactly as possible.

NOTE—We do not furnish these hinges.

HANGERS

Use one No. 135 or No. 335 hanger on every second door beginning with door farthest from half-door (Figures 1 and 2). For No. 137 hangers, use one hanger on each full size door. Half doors do not require hangers. To set hangers, hinge doors together, fold them and strike a center line across top of all doors. Attach hangers on this line so that pendant is on the exact center of door, considering both width and thickness.

The table (Figure 3) has been prepared with the view of reducing the space between the doors when folded (as given in column "C") to the minimum which the hangers and butts will allow.

OVERHEAD CONSTRUCTION DETAILS

Figure 4 details a vertical cross section showing typical overhead construction arrangement.

Header to which track brackets are attached should be placed between studding at height "E" above soffit as per table (see Figure 5) below.

NOTE—"2x4" header answers for all track except No. 33, for which a "2x6" header is required. 2x2 pieces are spiked to bottom end of studs. Furring strips $\frac{3}{8} \times 1\frac{1}{2}$ inches are nailed to studs, distance "G" above soffit, as per table (see Figure 5) below.

Head Casing should be attached with screws to permit convenient removal, thus giving access to track bracket bolts so track can be removed in case of necessity without disturbing partition.

Head Casing for No. 30 $\frac{1}{2}$, No. 31 and No. 526 tracks should not be less than six inches wide. For No. 33 track, it should be eight inches wide. This leaves an open space between top of 2x2 piece and bottom of $\frac{3}{8} \times 1\frac{1}{2}$ -inch Furring Strip through which screw driver may be inserted.

Distance "F" in table, from top of door to top of soffit should be $\frac{1}{4}$ inch more than thickness of soffit, to allow proper clearance for top of door.

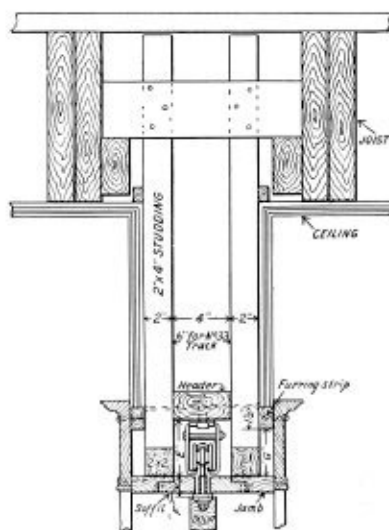


FIG. 4—VERTICAL CROSS SECTION

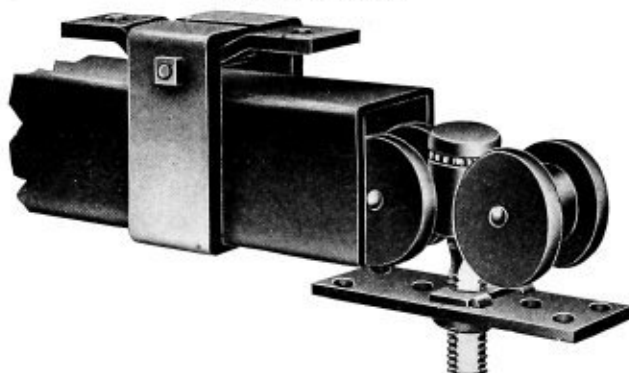
Hanger Number	Wheels	Bearings	Track Number	Thickness of Doors Inches	"E"—Distance from top of soffit to bottom of header Inches	"F"—Distance from top of door to top of soffit, inches		"G"—Distance from top of jamb to bottom of furring strip Inches
						$\frac{1}{2}$ -in. Soffit	$1\frac{1}{2}$ -in. Soffit	
135-0	Metal	Ball	30 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$
135-01	Metal	Ball	31	1 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$
135-1	Fibre	Roller	31	2 & 2 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$
135-2	Fibre	Roller	33	2 $\frac{1}{2}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	4 $\frac{1}{2}$
335	Gray Iron	Ball	526	1 $\frac{1}{2}$ & 1 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$
137-0	Metal	Ball	30 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$
137-1	Fibre	Ball	31	1 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$
137-2	Gray Iron	Ball	31	2 & 2 $\frac{1}{2}$	3 $\frac{1}{2}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	3 $\frac{1}{2}$

FIG. 5

Further information contained in working blue prints and special literature which will be sent on request.

No. 135 R-W Sliding Accordion Folding Door Hanger

(WILCOX No. 291)
MADE IN FOUR SIZES



For folding-sliding partition doors. Fitted with vertical screw adjustment and ball bearing swivel pendant. Frame: No. 0 and No. 01, drop forged; No. 1 and No. 2, malleable iron.

PRICE LIST

Hanger Number	For Track Number	WHEELS		Bearings	Thickness of Doors Inches	Weight Each Pounds	List Price Each
		Diameter, In.	Regular				
135-0	30½	1½	Metal	Ball	1½	1½	\$3.00
135-01	31	1½	Metal	Ball	1½	2	3.50
135-1	31	2½	Fibre	Roller	2 and 2½	1½	3.50
135-2	33	3	Fibre	Roller	2½	5	5.00

Discount.....

TRACK AND BRACKETS

	Weight Pounds	Unit	Price
No. 30½ track, black	1½	per ft.	\$.16
No. 31 track, black	1½	per ft.	.19
No. 33 track, black	4	per ft.	.44
No. 30½ x 3 split brackets for 30½ track	½	each	.25
No. 31 x 3 split brackets for 31 track	1½	each	.30
No. 33 x 3 split brackets for 33 track	3½	each	.70

Discount.....

Directions for Ordering—Always specify by number, the hangers, track and brackets desired. Track should be as long as opening is wide, less eight inches.

Brackets should be placed 2 to 2½ feet apart. Doors should not exceed 3 feet in width.

In ordering state number of full size doors and half doors, width of opening and the thickness of doors.

NOTE—One No. 135 hanger used on every other door, beginning with door farthest from half door. Nos. 1 and 2 size furnished with metal wheels if desired.



For erecting plans, see pages 18, 19, 20.

For full size cross section of trolley tracks, see page 52.

No. 137

R-W Sliding Accordion Folding Door Hanger

(WILCOX No. 221)
MADE IN THREE SIZES



For folding-sliding partition doors. Fitted with vertical screw adjustment and ball bearing swivel drop forged pendant.

PRICE LIST

Hanger Number	For Track Number	WHEELS		Bearings	Thickness of Doors Inches	Weight Each Pounds	List Price Each
		Diameter, In.	Regular				
137-0	30½	1¾	Metal	Ball	1½	1	\$2.50
137-1	31	2½	Fibre	Ball	1½	1½	3.00
137-2	31	2½	Metal	Ball	2 and 2½	2½	3.20

TRACK AND BRACKETS

Discount.....

	Weight Pounds	Unit	Price
No. 30½ track, black	1½	per ft.	\$.16
No. 31 track, black	1½	per ft.	.19
No. 30½ x 3 split brackets for 30½ track	¾	each	.25
No. 31 x 3 split brackets for 31 track	1½	each	.30

Discount.....

Directions for Ordering—Always specify by number, the hangers, track and brackets desired. Track should be as long as opening is wide, less eight inches.

Brackets should be placed 2 to 2½ feet apart. Doors should not exceed 3 feet in width.

In ordering state number of full size doors and half doors, width of opening and the thickness of doors.

NOTE—One No. 137 hanger should be attached to each full size door.

For erecting plans, see pages 18, 19, 20.

For full size cross section of trolley tracks, see page 52.

No. 335

R-W Sliding Accordion Folding Door Hanger

(NOISELESS)



For folding-sliding partition doors. Fitted with vertical screw adjustment and ball bearing swivel drop forged pendant. Track, No. 16 gauge steel and hard maple lined, No. 526 clincher type. Wheels, grey iron, lathe turned, $1\frac{1}{2}$ inches diameter. Bearings, steel balls. Suitable for doors $1\frac{1}{2}$ inches to $2\frac{1}{4}$ inches thick. Weight: hangers, per pair, $2\frac{1}{2}$ pounds; track, per foot, $1\frac{1}{4}$ pounds; brackets, each, $1\frac{1}{2}$ pounds.

PRICE LIST

No. 335 Hangers, each.....	\$4.00
No. 526 Track, per foot.....	.50
No. 31 x 3 Split Brackets, each.....	.30

Discount.....

Directions for Ordering—Always specify by number, the hangers, track and brackets desired. Track should be as long as opening is wide, less eight inches.

Brackets should be placed 2 to $2\frac{1}{2}$ feet apart. Doors should not exceed 3 feet in width.

In ordering state number of full size doors and half doors, width of opening and the thickness of doors.

NOTE—One No. 335 hanger used on every other door, beginning with door farthest from half door.

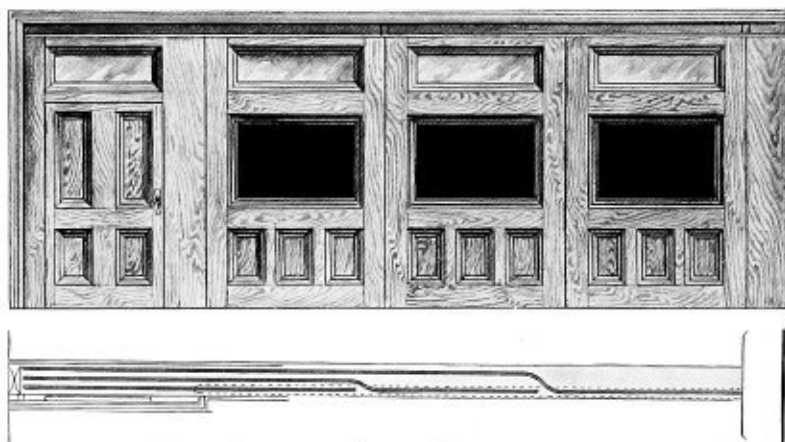


For erecting plans, see pages 18, 19, 20.

For full size cross section of track, see page 38.

R-W Flush Door Hangers

DESIGNED FOR SLIDING PARTITION DOORS IN PUBLIC SCHOOLS, LIBRARIES AND CHURCHES
APPROVED BY BOARDS OF EDUCATION IN ALL LEADING CITIES



NOTE—Hangers are illustrated on pages 28, 29. Customers are requested to note following information before ordering.

For closing large openings between rooms in public buildings, the flush door method is the best. The doors are entirely out of the way when open and form a real partition between rooms when closed. This is accomplished by special arrangement of tracks.

Figure 1 shows Flush Doors sliding back into a pocket when open. When withdrawn, doors stand in one continuous line. A small door hinged to pocket casing is used to close up pocket opening when doors are withdrawn. This hinged door is provided with a lock which locks

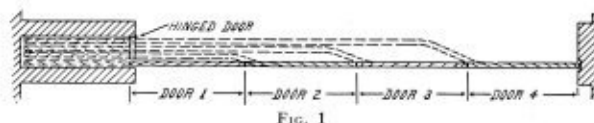


FIG. 1

it to door No. 1. This door is also used to cover face of doors when they are in pocket. Door No. 1 runs on straight track. Each of the other doors has its own track, and each track requires a compound curve. Each door should also have flush bolt set into bottom of door on side farthest

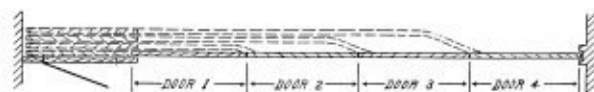


FIG. 2

from pocket. Meeting stiles of doors should be astragals, and on large work metal astragals are generally used. Each door should also be provided with a flush pull.

Figure 2 shows the use of stationary panel, which is similar in size and design to the sliding doors, except that it has a small wicket door cut in it to provide easy communication

R-W Flush Door Hangers

INFORMATION, CONTINUED

between adjoining rooms when the large doors are closed. When the stationary panel is used the doors when opened are pushed back alongside of it.

Figure 3 shows door opening toward both sides of room, and either of the arrangements shown in Figs. 1 and 2 may be used. The door equipment is the same.

INSTALLATION DETAILS

Flush doors should be hung on either No. 443, No. 444-1, or No. 444-2 hangers.

No. 443 or No. 444-1 hangers will accommodate doors weighing up to five hundred pounds. No. 443 operates in No. 164 track. No. 444-1 in No. 75 track, as illustrated on pages 28, 29.



FIG. 3

If heavier doors are to be hung, they should be equipped with No. 444-2 hangers. This hanger is the same style and design as our No. 444-1 but operates in the larger track, our No. 164, the same track as No. 443 hanger requires.

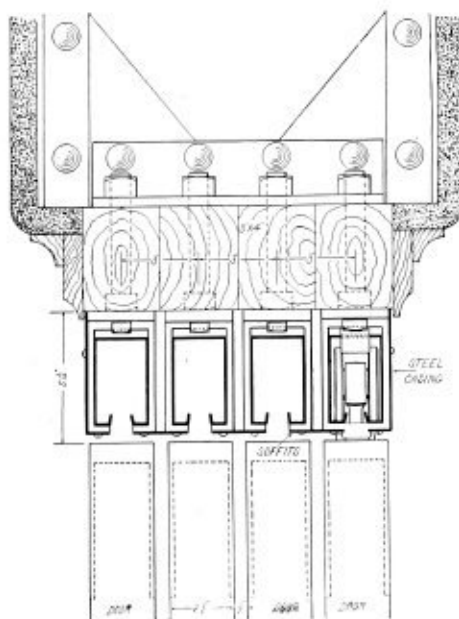


FIG. 4

No. 443 hanger requires 5 1-16 inches from the top of door to the header, as shown in vertical cross-section, Figure 4.

When the No. 443 hanger is used, the center of pendant bolt should be $8\frac{1}{2}$ inches from edge of door. When the No. 444-1 hanger is used, the minimum distance should be $11\frac{1}{2}$ inches; No.

R-W Flush Door Hangers

INFORMATION, CONTINUED

444-2 should be $12\frac{1}{2}$ inches. Aprons and side plates of hangers are so made that they unite and help tie together the stile and top rail of door. Stiles of doors should be at least 7 inches wide. Hangers are furnished regularly for doors $2\frac{1}{2}$ inches thick, but we can make them up for doors of any thickness, if necessary.

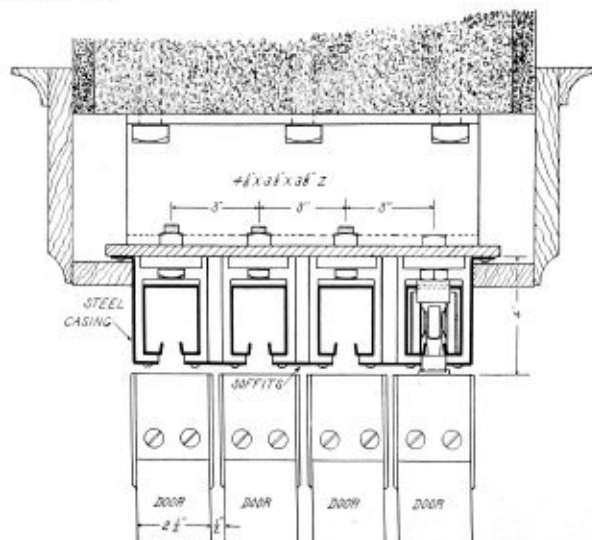


FIG. 5

NO. 444-1 HANGER REQUIRES 4 INCHES, AS SHOWN IN VERTICAL CROSS SECTION FIGURE NO. 5

NO. 444-2 HANGER REQUIRES $5\frac{1}{2}$ INCHES AS SHOWN IN VERTICAL CROSS SECTION FIGURE NO. 4 ON PAGE 25



FIG. 6

TRACK

For full size cross sections of track, see pages 28, 29.

Tracks should be spaced three-inch centers, and should be enclosed with steel casings and soffits which are attached direct to brackets with small machine screws. Soffits cover entire bottom of tracks excepting slots wide enough for hanger pendants to travel through. (See Figure 6.)

BRACKETS

Brackets may be bolted either to wood beams or steel plates, and it is well to arrange headers so that through bolts can be used rather than lag screws, especially on the extra heavy doors. Brackets are malleable iron and are tapped to receive screws used in attaching the casing and soffits. End brackets have a stop lug against which the door-stop strikes. This prevents doors accidentally running out of track.

NOTE—Further information contained in working blue prints, which will be sent on request.

R-W Flush Door Hangers

INFORMATION, CONCLUDED

DIRECTIONS FOR ORDERING

In ordering state number of doors, width of opening between finished jambs and thickness of doors.

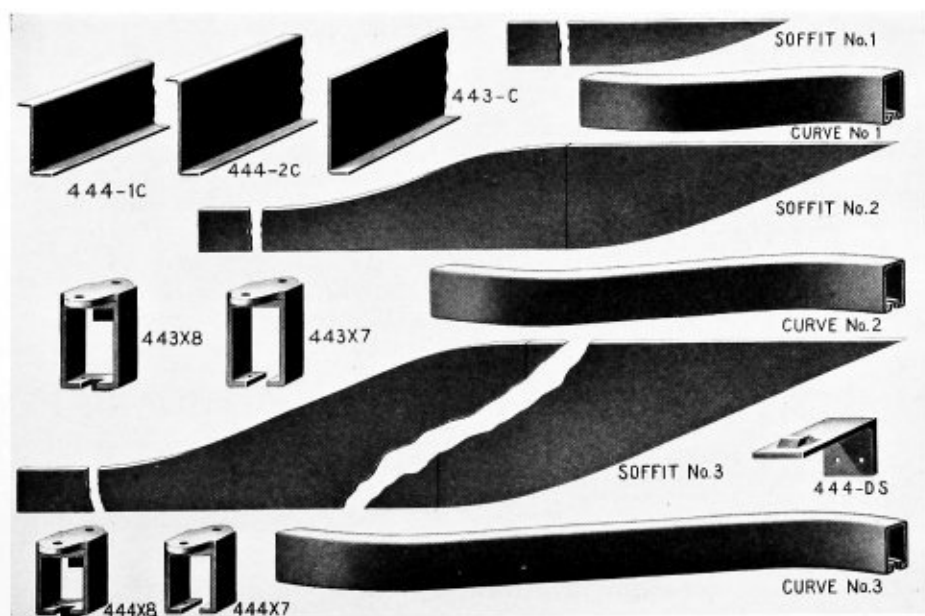
Width of each door, approximate weight of doors, if all slide toward one side or if one-half of doors slide toward each side, when open.

State whether doors slide back into pockets or along side of a stationary panel when open. State depth of pocket or width of stationary panel. When doors close into a pocket, always allow three inches pocket width for each door. State distance first and last doors lap the jambs or stationary panels when doors are closed.

Describe style and thickness of header to which brackets are attached. Always specify if bolts are desired to attach brackets to heading timber or plate.

State if steel soffit plates and casings are required.

Always send sketch showing layout of track and dimensions so we can determine whether curves are right or left hand.



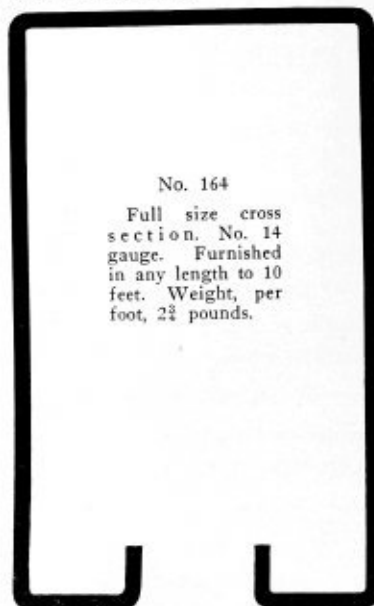
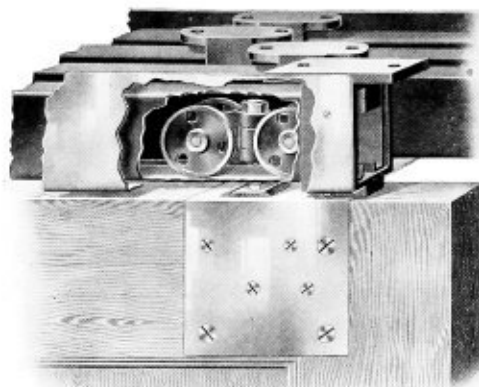
NOTE—Compound curves and soffit plates increase in size according to number of doors in opening. Soffits are trimmed to approximate shape, but screw holes in soffits and casings must be punched by contractor on the job.

For description, see pages 28, 29.

No. 443—R-W Flush Door Hanger

(WILCOX No. S 443)

APPROVED BY BOARDS OF EDUCATION IN ALL LEADING CITIES



No. 164

Full size cross section. No. 14 gauge. Furnished in any length to 10 feet. Weight, per foot, 2½ pounds.

Track, No. 14 gauge steel, No. 164 type. Wheels, grey iron, lathe turned, 2½ inches diameter. Bearings, high duty steel balls. Frame, drop forged, knuckle joint. Finish: hanger, black enamel; apron, solid brass, polished. Adjustment, vertical. Apron, 6½ inches wide, 6 inches long. Screws furnished for attaching hanger to door. Hangers made regular for doors 2½ inches thick, other sizes furnished if required. Aprons on special sizes are made of steel, brass plated. Distance from top of door to heading timber or plate, 5 1-16 inches.

DESCRIPTIVE LIST

HANGER, TRACK, CURVES, BRACKETS, SOFFIT PLATES AND CASING

Number	Article	Weight
443	Hanger	Per pair . . . 20 lbs.
164	Track, No. 14-gauge steel	Per foot . . . 2½ lbs.
164-1	Compound curve, No. 1, No. 14-gauge steel	Each . . . 4 lbs.
164-2	Compound curve, No. 2, No. 14-gauge steel	Each . . . 5½ lbs.
164-3	Compound curve, No. 3, No. 14-gauge steel	Each . . . 7 lbs.
164-4	Compound curve, No. 4, No. 14-gauge steel	Each . . . 8½ lbs.
164-5	Compound curve, No. 5, No. 14-gauge steel	Each . . . 10½ lbs.
164-6	Compound curve, No. 6, No. 14-gauge steel	Each . . . 12 lbs.
164-7	Compound curve, No. 7, No. 14-gauge steel	Each . . . 14 lbs.
443x7	Center bracket (malleable iron)	Each . . . 3 lbs.
443x8	End bracket (malleable iron)	Each . . . 3½ lbs.
443-1	Soffit plate, No. 1, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-2	Soffit plate, No. 2, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-3	Soffit plate, No. 3, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-4	Soffit plate, No. 4, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-5	Soffit plate, No. 5, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-6	Soffit plate, No. 6, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-7	Soffit plate, No. 7, No. 14-gauge steel	Per sq. ft. . . 3½ lbs.
443-C	Casing (with screws) No. 14-gauge steel	Per foot . . . 1½ lbs.

Prices quoted on application.

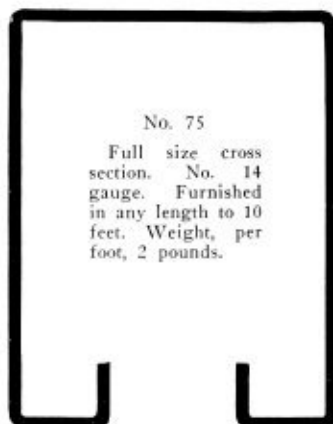
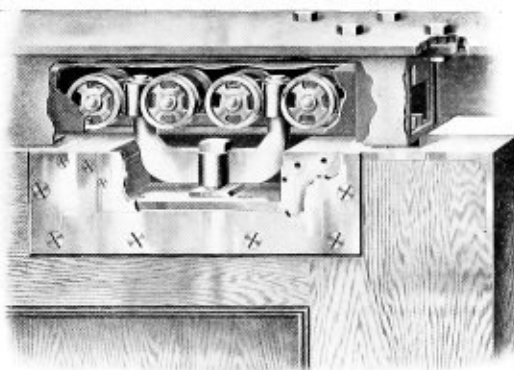
NOTE—Machine bolts or lag screws furnished at reasonable price when specified. When ordering these, state type and thickness of heading timber or plate.



No. 444—R-W Flush Door Hanger

MADE IN TWO SIZES: No. 1 FOR No. 75 TRACK, No. 2 FOR No. 164 TRACK

APPROVED BY BOARDS OF EDUCATION IN ALL LEADING CITIES



No. 75

Full size cross section. No. 14 gauge. Furnished in any length to 10 feet. Weight, per foot, 2 pounds.

Track, No. 14 gauge steel, No. 1 operates in No. 75, No. 2 in No. 164 type. Wheels, grey iron, lathe turned. No. 1, $2\frac{3}{4}$ inches, No. 2, $2\frac{3}{4}$ inches diameter. Bearings, high duty steel balls. Frames, drop forged, knuckle joint. Finish, hanger and side plates, dull black enamel. Side plates have beveled edges. Size: No. 1, 4 inches wide, 13 inches long; No. 2, 6 inches wide, 14 inches long. Screws furnished for attaching hangers to doors. Hangers made regular for doors $2\frac{1}{2}$ inches thick, other sizes furnished if required. Use No. 444-1 hanger for doors weighing up to 500 lbs.

Distance from top of door to heading timber or plate: No. 1, 4 inches; No. 2, 5 1-16 inches.

DESCRIPTIVE LIST

HANGER, TRACK, CURVES, BRACKETS, SOFFIT PLATES AND CASING

No. 444-1

Number	Article	Weight
444-1	Hanger	Per pair . . . 27 lbs.
75	Track, No. 14-gauge steel	Per foot . . . 2 lbs.
75-1	Compound curve, No. 1, No. 14-gauge steel	Each . . . 3 lbs.
75-2	Compound curve, No. 2, No. 14-gauge steel	Each . . . $4\frac{1}{2}$ lbs.
75-3	Compound curve, No. 3, No. 14-gauge steel	Each . . . $5\frac{1}{2}$ lbs.
75-4	Compound curve, No. 4, No. 14-gauge steel	Each . . . $6\frac{3}{4}$ lbs.
75-5	Compound curve, No. 5, No. 14-gauge steel	Each . . . 8 lbs.
75-6	Compound curve, No. 6, No. 14-gauge steel	Each . . . $9\frac{1}{2}$ lbs.
75-7	Compound curve, No. 7, No. 14-gauge steel	Each . . . 11 lbs.
444x7	Center bracket (malleable iron)	Each . . . $2\frac{1}{2}$ lbs.
444x8	End bracket (malleable iron)	Each . . . $2\frac{1}{2}$ lbs.
444-DS	Door stop (malleable iron)	Each . . . $1\frac{1}{2}$ lbs.
Note:	Soffit Plates are same as used on No. 443. See opposite page.	
444-1C	Casing, No. 14-gauge steel	Per foot . . . $1\frac{1}{2}$ lbs.

No. 444-2

444-2	Hanger	Per pair . . . 40 lbs.
Note:	Track	
Note:	Compound curves	
Note:	Center bracket	} are same as used on No. 443. See opposite page.
Note:	End bracket	
Note:	Soffit plates	
Note:	Door stop is same as used on No. 444-1. See above.	
444-2C	Casing, No. 14-gauge steel	Per foot . . . $1\frac{1}{2}$ lbs.

Prices quoted on application.

NOTE—Machine bolts or lag screws furnished at reasonable price when specified. When ordering these, state type and thickness of heading timber or plate.

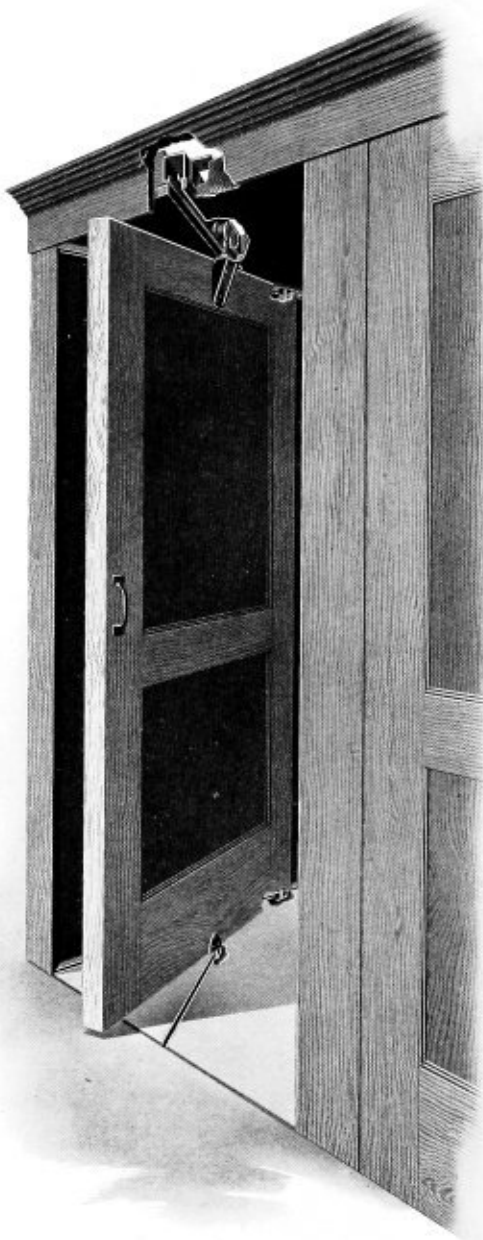
No. 277

R-W Receding Telephone Booth Door Fixture

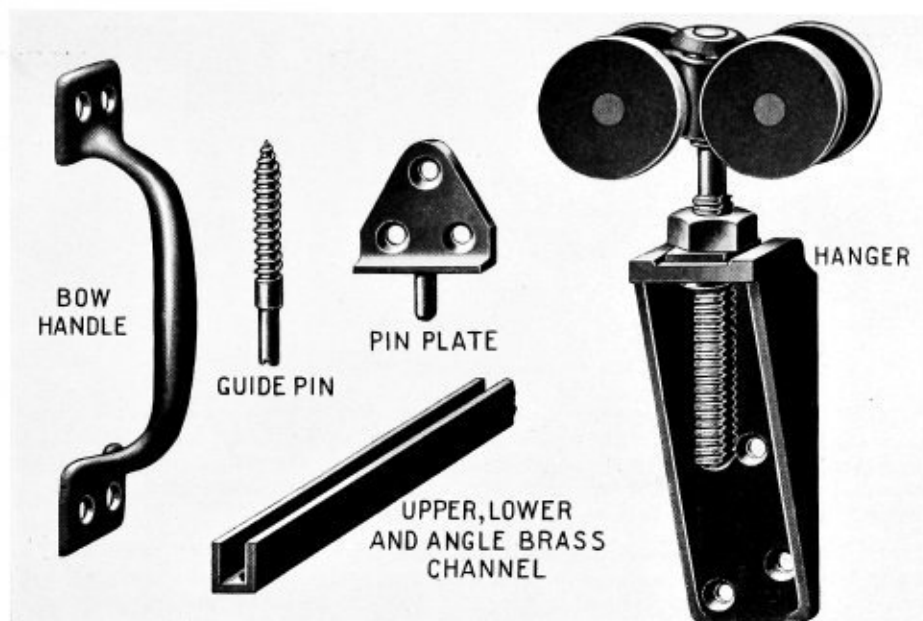
DESIGNED TO MEET A GENERAL DEMAND FOR SOMETHING NEAT AND INEXPENSIVE WHERE A
RECEDING TYPE OF FLUSH DOOR FOR SOUND PROOF BOOTHS IS DESIRED

This type of receding door fixture has proven very popular in small toll stations, on account of saving in floor space. Takes up no space to allow for swinging of door, as with the general type of telephone booth doors. Receding space is only the thickness of door, which slides to side of booth when opening. Operates very easily and booth is always open when not in use. Can be kept closed if desired.

This fixture is also used to a great extent on scale houses, fire hose and sprinkler valve stations.



No. 277 R-W Receding Telephone Booth Door Fixture



Track for hanger, No. 16 gauge steel, No. 30½ type, channel for guide pins, upper and lower, hard brass. Wheels, metal, 1½ inches diameter. Bearings, steel balls, both in hanger and swivel pendant. Suitable for doors 1½ to 2¼ inches thick. Adjustment, vertical. Weight, per set, 12 pounds.

PRICE LIST

Fixtures, complete, ready to erect, per set.....\$16.00

Discount.....

A set of fixtures consists of following:

- 1 No. 277 hanger.
- 1 No. 277 pin plate.
- 2 No. 277 guide pins.
- 1 No. 277 upper brass channel.
- 1 No. 277 lower side brass channel.
- 1 No. 277 angle brass channel.
- 1 piece No. 30½ track (for full size cross section, see page 52.)
- 2 No. 30½ x 5 cross ear ceiling brackets.
- 1 bow handle.

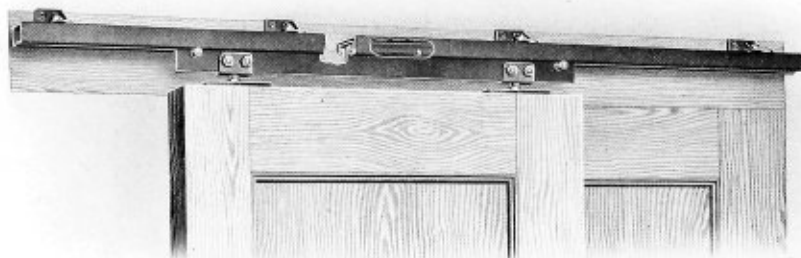
Directions for Ordering—State width of door, thickness, and if wood or metal. When door is open, state if front edge is flush with opening, or set back into booth or projects outside and how much.

Always send sketch showing to which side the door slides and give all dimensions asked above

No. 727-1

R-W Ideal Elevator Door Fixtures

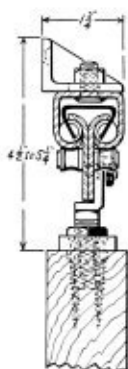
FOR SINGLE DOORS



FOR DOORS WEIGHING UP TO 300 POUNDS

IDEAL HANGERS—Length of hanger is equal to the width of door and one-half the length of track, providing a long bearing, evenly distributing weight of door over a long section of track, insuring to a certainty smooth, steady motion, and easy running. The weight of the door is carried on two rows of $\frac{1}{2}$ -inch high duty steel balls, kept an equal distance apart by a retainer. Limit rollers provided to prevent doors from jumping or raising.

IDEAL TRACK—Track is a rectangular shaped tube made of very heavy gauge steel, and is drawn to form two parallel runways for steel balls upon which hanger rolls (see cross section). Length of track equals entire width of opening or run of doors. Is dust and dirt proof.



CROSS SECTION
VIEW

Track has lateral adjustment, hanger has vertical adjustment.

Finish, flat black. Packed with screws for attaching to doors.

In ordering state:

First—Width of sliding door.

Second—Width of door opening.

Third—Thickness of door.

Fourth—Whether attached to metal or wood.

Fifth—Whether metal or wood doors.

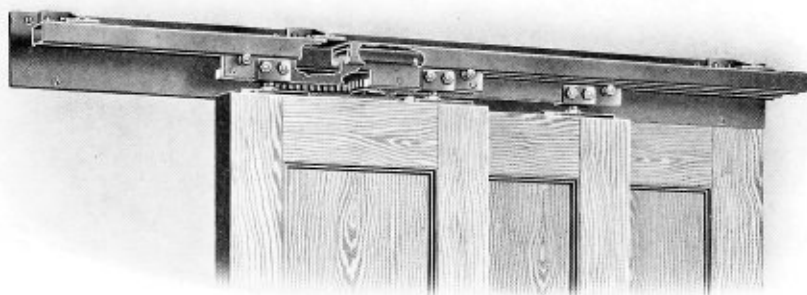
PRICE LIST

Doors up to 24 inches, per set.....	\$10.25
Doors up to 30 inches, per set.....	11.00
Doors up to 36 inches, per set.....	11.90
Doors up to 42 inches, per set.....	12.80
Doors up to 48 inches, per set.....	13.70
Doors up to 54 inches, per set.....	14.60
Doors up to 60 inches, per set.....	15.50

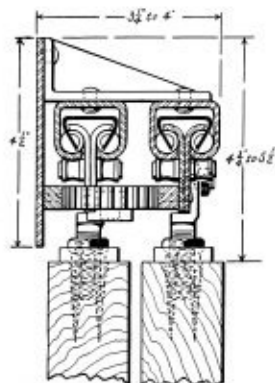
Discount.....

No. 728-1 R-W Ideal Elevator Door Hangers

FOR TWO-SPEED DOORS



FOR DOORS WEIGHING UP TO 200 POUNDS



CROSS SECTION VIEW

Made with rack and pinion attachment for operating two doors in the same direction, one door moving at twice the speed of the other. Furnished with a wall plate to which the complete fixture is attached. Special pendants required for doors less than 1 1/4 inches thick.

Finish, flat black, regular; other finishes furnished on application. Packed with screws for attaching to doors.

In ordering state:

- First*—Width of each sliding door.
- Second*—Lap of the sliding door over stationary door.
- Third*—Lap of sliding door over jamb, if any.
- Fourth*—Width of door opening.
- Fifth*—Thickness of doors.
- Sixth*—Whether attached to metal or wood.
- Seventh*—Right hand (as in cut) or left hand.
- Eighth*—Whether metal or wood doors.

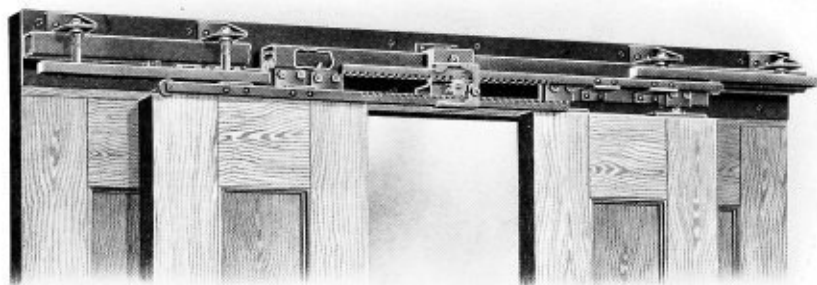
PRICE LIST

Doors up to 12 inches, per set.....	\$35.00
Doors up to 18 inches, per set.....	40.00
Doors up to 24 inches, per set.....	45.50
Doors up to 30 inches, per set.....	51.00
Doors up to 36 inches, per set.....	56.50
Doors up to 42 inches, per set.....	62.00
Doors up to 48 inches, per set.....	68.00

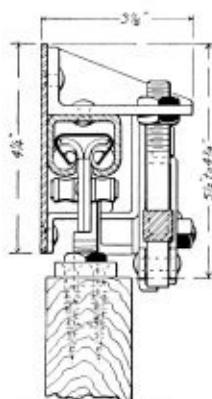
Discount.....

No. 730 R-W Ideal Elevator Door Hangers

FOR DOORS IN PAIRS



FOR DOORS WEIGHING UP TO 300 POUNDS



CROSS SECTION VIEW

Made with rack and pinion attachment for simultaneously operating both doors in opposite directions. Furnished with wall plate to which complete fixture is attached.

Finish, flat black, regular; other finishes furnished on application. Packed with screws for attaching to doors.

In ordering state:

- First*—Width of each sliding door.
- Second*—Width of door opening.
- Third*—Thickness of doors.
- Fourth*—Whether attached to metal or wood.
- Fifth*—Whether metal or wood doors.

PRICE LIST

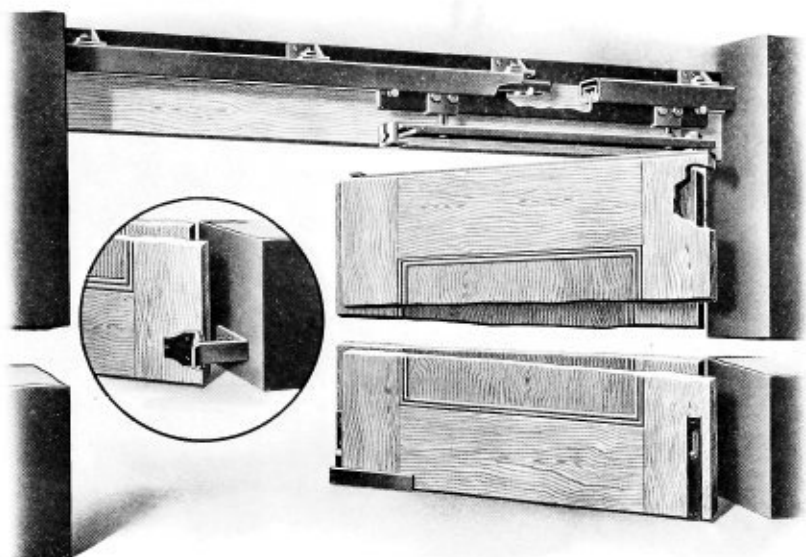
Doors up to 18 inches, per set.....	\$35.50
Doors up to 24 inches, per set.....	40.00
Doors up to 30 inches, per set.....	46.00
Doors up to 36 inches, per set.....	52.50
Doors up to 42 inches, per set.....	60.00
Doors up to 48 inches, per set.....	68.00

Discount.....

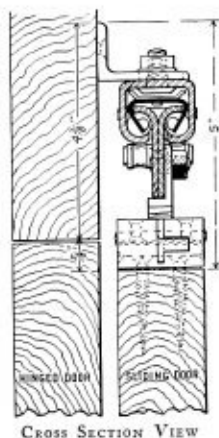
No. 723

R-W Ideal Elevator Door Hangers

FOR COMBINATION SWING AND SLIDE DOORS



FOR DOORS WEIGHING UP TO 300 POUNDS



CROSS SECTION VIEW

Used when stationary door is hinged, and it is desirable to swing both doors open so as to use the full width of elevator opening, yet not practical to swing the transom bar to which track is attached. It is usually more satisfactory to arrange to swing the transom bar if possible. Fixtures are reversible and can be used on right or left hand doors. Two methods of controlling the bottom of the sliding door while swinging open with the hinged door are shown. The method shown in circle illustration requires a roller and bracket and an angle guide to hold bottom of door in place. The other method shows the use of an ordinary flush bolt with round pin, which is lowered into a hole in the iron saddle to serve as a pivot for the bottom of the door to swing on. For doors where the flush bolt can be used it is probably the most satisfactory method, but care must be taken to locate the center of the flush bolt exactly below and in line with the pivot in the top fixture. A guide shoe for the front end of door is regularly furnished, but neither the flush bolt nor the roller angle are included in a set of fixtures. Finish, flat black, regular; other finishes furnished on application. Packed with screws for attaching to doors. In ordering state:

First—Width of sliding door.

Second—Width of door opening.

Third—Exact thickness of sliding door.

Fourth—Whether attached to metal or wood.

Fifth—Whether metal or wood doors.

PRICE LIST

Doors up to 24 inches, per set.....	\$15.75
Doors up to 30 inches, per set.....	16.50
Doors up to 36 inches, per set.....	17.50
Doors up to 42 inches, per set.....	18.50
Doors up to 48 inches, per set.....	19.50
Doors up to 54 inches, per set.....	20.50
Doors up to 60 inches, per set.....	21.50

Discount.....

No. 725 R-W Ideal Elevator Door Lock

MADE IN TWO STYLES



FIG. 2

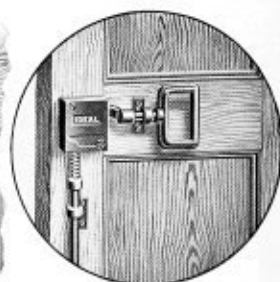


FIG. 1

No. 725-1 (Fig. 1) furnished with D handle and is suitable for narrow doors or in places where a bar handle across the entire door would be objectionable.

No. 725-2 (Fig. 2) furnished with bar handle reaching across the door, enabling the operator to open the door without leaving his position. Suitable for all kinds of elevator doors. Made only in solid brass. Furnished right or left hand to suit requirements. Illustration shows a right hand door. When required can be furnished with key so that door can be locked from loft side. Latch bar can be furnished any length required. Regularly furnished of such length that handle bar will be about 39 inches from floor. Finish, polished and lacquered. Screws furnished for attaching to door. In ordering state:

First—Width of door.

Second—Whether metal or wood doors.

Third—Right hand (as in cut) or left hand.

Fourth—If key is required.

PRICE LIST

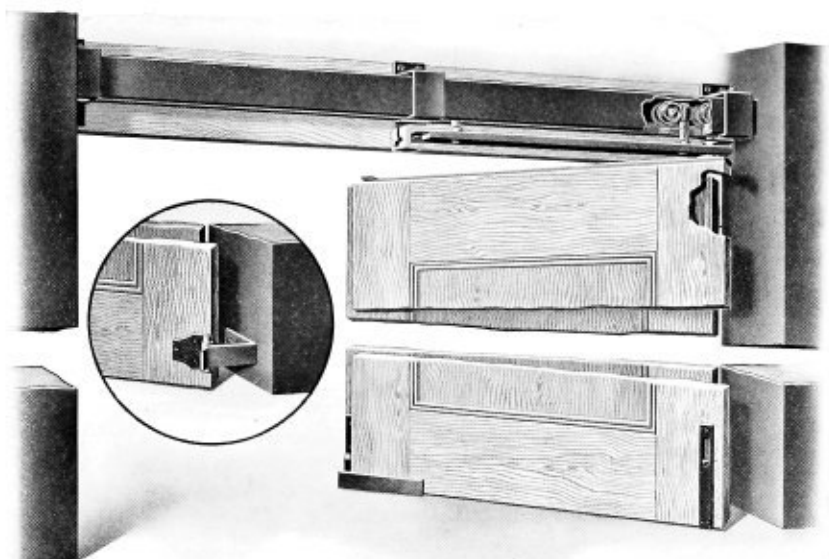
No. 725-1 elevator door lock, each.....	\$9.00
No. 725-2 elevator door lock, each.....	9.00

Discount.....

No. 724

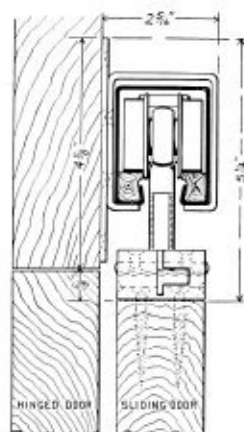
R-W Invincible Elevator Door Hangers

FOR COMBINATION SWING AND SLIDE DOORS



FOR DOORS WEIGHING UP TO 300 POUNDS

Used when stationary door is hinged, and it is desirable to swing both doors open so as to use the full width of elevator opening, yet not practical to swing the transom bar to which track is attached. It is usually more satisfactory to arrange to swing the transom bar if possible. Fixtures are reversible and can be used on right or left hand doors. Two methods of controlling the bottom of the sliding door while swinging open with the hinged door are shown. The method shown in circle illustration requires a roller and bracket and an angle guide to hold bottom of door in place. The other method shows the use of an ordinary flush bolt with round pin, which is lowered into a hole in the iron saddle to serve as a pivot for the bottom of the door to swing on. For doors where the flush bolt can be used it is probably the most satisfactory method, but care must be taken to locate the center of the flush bolt exactly below and in line with the pivot in the top fixture. A guide shoe for the front end of door is regularly furnished, but neither the flush bolt nor the roller angle are included in a set of fixtures. Finish, black enamel. Packed with screws for attaching to doors. For cut of hanger carriage and full cross section of track, see page 39.



CROSS SECTION VIEW

In ordering state:

First—Width of sliding door.

Second—Width of door opening

Third—Exact thickness of sliding door.

Fourth—Whether attached to metal or wood.

Fifth—Whether metal or wood doors.

PRICE LIST

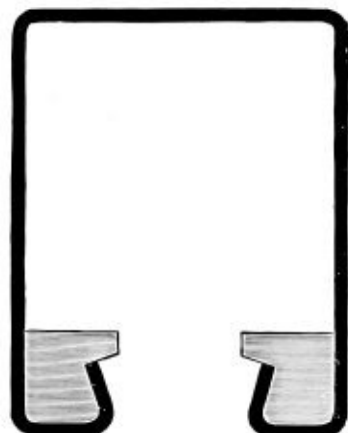
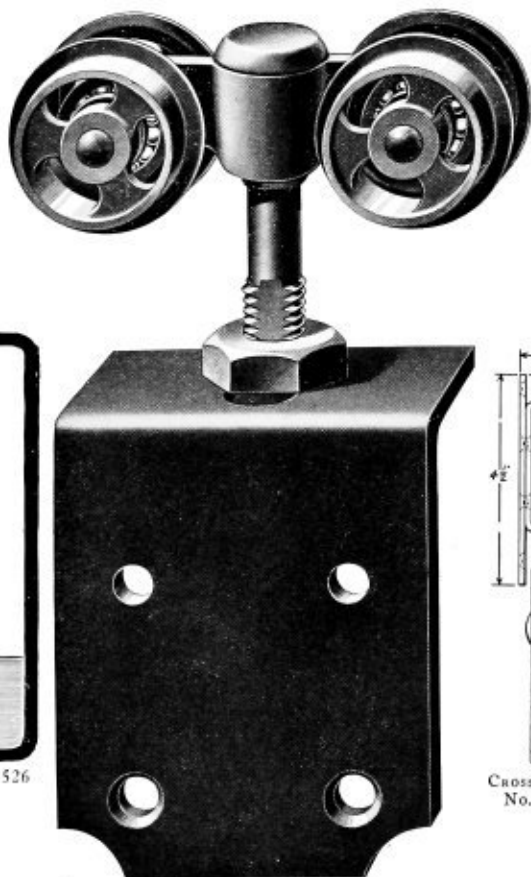
Doors up to 24 inches, per set.....	\$11.75
Doors up to 30 inches, per set.....	12.25
Doors up to 36 inches, per set.....	13.00
Doors up to 42 inches, per set.....	13.50
Doors up to 48 inches, per set.....	14.00
Doors up to 54 inches, per set.....	14.50
Doors up to 60 inches, per set.....	15.20

Discount.....

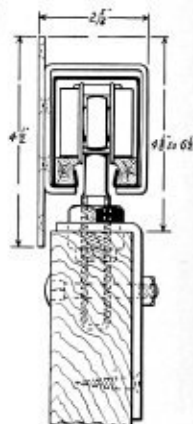
No. 526 R-W Invincible Ball-Bearing Elevator Door Hanger

FOR DOORS WEIGHING UP TO 300 POUNDS

Distance top of door
to bottom of track:
Minimum 1 inch;
Maximum, $2\frac{3}{4}$ inches.



FULL SIZE CROSS SECTION OF No. 526
WOOD LINED TROLLEY TRACK



CROSS SECTION VIEW
No. 526 HANGER

PERFECTLY NOISELESS AND EASY RUNNING

Track, No. 16 gauge steel and hard maple lined, No. 526 clincher type. Wheels, grey iron, lathe turned, $1\frac{3}{8}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, lateral and vertical. Apron, 4 inches long, $3\frac{1}{2}$ inches wide $\frac{3}{16}$ inch thick. For doors $1\frac{3}{4}$ inches or more in thickness. Weight: hangers, per pair, $5\frac{1}{4}$ pounds; track, per foot, $1\frac{1}{4}$ pounds.

PRICE LIST

No. 526 hangers, less brackets, per pair.....	\$3.50
No. 526 track, per foot.....	.50
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

Discount.....

NOTE—Always specify brackets by number and give thickness of door.

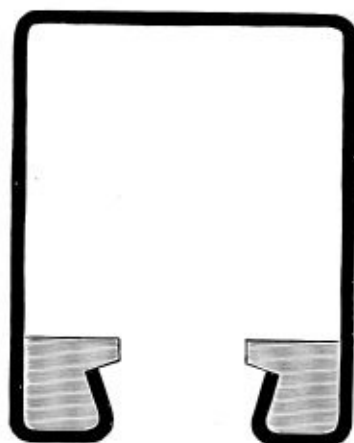


RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



No. 626 R-W Invincible Ball-Bearing Elevator Door Hanger

FOR DOORS WEIGHING UP TO 300 POUNDS



FULL SIZE CROSS SECTION OF No. 526
WOOD LINED TROLLEY TRACK



PERFECTLY NOISELESS AND EASY RUNNING

Distance top of door
to bottom of track:
Minimum, 1 inch;
Maximum, 2 $\frac{3}{4}$ inches.

Track, No. 16 gauge steel and hard maple lined, No. 526 clincher type. Wheels, grey iron, lathe turned, 1 $\frac{7}{8}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, vertical only. Plate, regular, 5 inches long, 1 $\frac{3}{8}$ inches wide, for doors 1 $\frac{3}{8}$ inches or more in thickness; for thinner doors, specify plate 3 $\frac{1}{2}$ inches long, 1 inch wide. Weight: hangers, per pair, 4 pounds; track, per foot, 1 $\frac{3}{4}$ pounds.

PRICE LIST

No. 626 hangers, less brackets, per pair.....	\$3.50
No. 526 track, per foot.....	.50
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

Discount.....

NOTE—Always specify brackets by number and give thickness of doors.

No. 326 R-W Ball-Bearing Trolley Door Hanger

FOR DOORS WEIGHING UP TO 250 POUNDS



Distance top of door
to bottom of track:
Minimum $1\frac{1}{2}$ inches;
Maximum, $3\frac{3}{4}$ inches.

Used for metal or wire doors and gates in bank, office, or other public buildings. Especially adapted to use with incline track for gravity closing doors, pendant being pivotally hung. Track, No. 16 gauge steel and hard maple lined, No. 526 clincher type. Wheels, grey iron, lathe turned, $1\frac{1}{8}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, vertical only. Pendant extends $3\frac{3}{4}$ inches below track. Plate, $3\frac{1}{2}$ inches long, 1 inch wide. Weight: hangers, per pair, $3\frac{1}{4}$ pounds; track, per foot, $1\frac{1}{4}$ pounds.

PRICE LIST

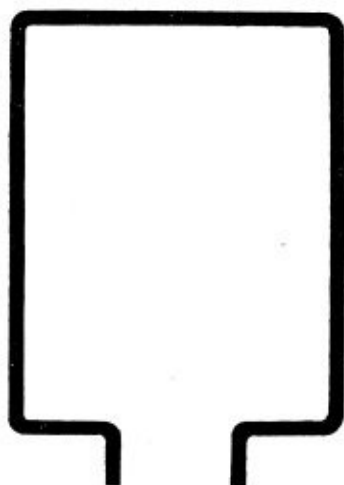
No. 326 hangers, less brackets, per pair.....	\$3.00
No. 526 track, per foot.....	.50
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

Discount.....

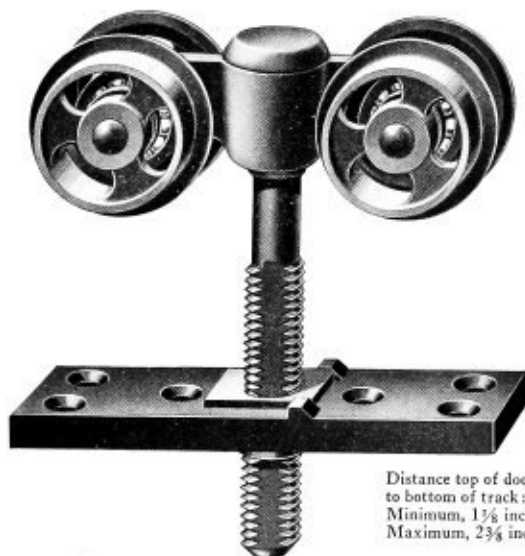
NOTE—Always specify brackets by number and give thickness of doors.

No. 426 R-W Ball-Bearing Elevator Door Hanger

FOR DOORS WEIGHING UP TO 300 POUNDS



FULL SIZE CROSS SECTION OF No. 35
TROLLEY TRACK



Distance top of door
to bottom of track:
Minimum, $1\frac{1}{8}$ inches;
Maximum, $2\frac{3}{4}$ inches.

Especially adapted for use in basements, subways and similar places subject to dampness and moisture, as track will not retain water.

Track, No. 14 gauge steel, No. 35 type. Wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, vertical only. Plate, regular, 5 inches long, $1\frac{3}{8}$ inches wide, for doors $1\frac{3}{8}$ inches or more in thickness; for thinner doors specify plate $3\frac{1}{2}$ inches long, 1 inch wide. Weight: hangers, per pair, 5 pounds; track, per foot, $2\frac{1}{4}$ pounds.

PRICE LIST

	BLACK GALV.
No. 426 hangers, less brackets, per pair.....	\$3.50
No. 35 track, black, per foot.....	.19 \$.22
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

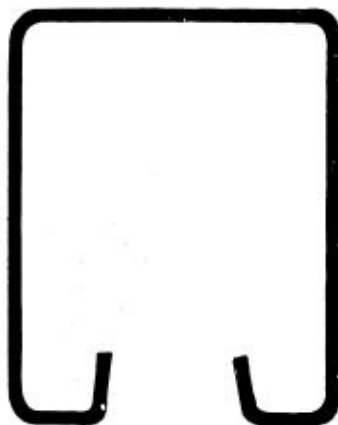
Discount.....

NOTE—Always specify brackets by number and give thickness of doors.



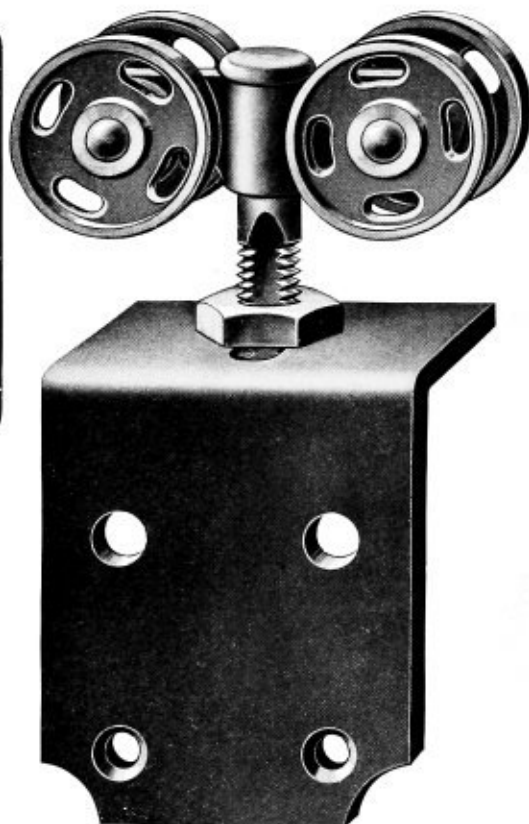
No. 26 R-W Ball-Bearing Elevator Door Hanger

FOR DOORS WEIGHING UP TO 300 POUNDS



FULL SIZE CROSS SECTION OF No. 31
TROLLEY TRACK

Distance top of door
to bottom of track:
Minimum, 1 inch;
Maximum, $2\frac{3}{4}$ inches.



Track, No. 16 gauge steel, No. 31 type. Wheels, grey iron, lathe turned, $2\frac{1}{8}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, lateral and vertical. Apron, 4 inches long, $3\frac{1}{2}$ inches wide, $\frac{3}{16}$ inch thick. For doors $1\frac{3}{4}$ inches or more in thickness. Weight: hangers, per pair, 6 pounds; track, per foot, $1\frac{1}{2}$ pounds.

PRICE LIST

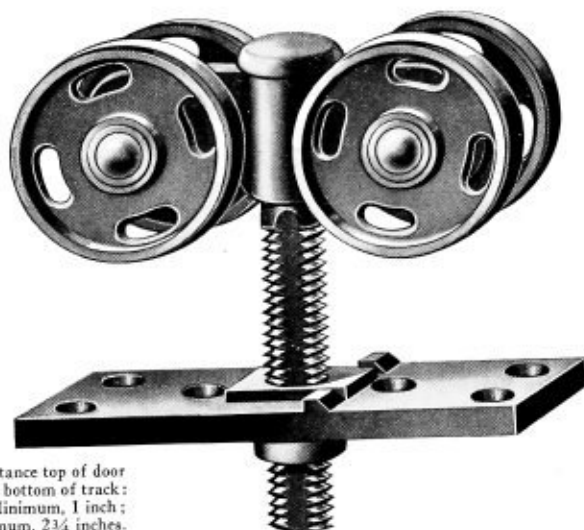
No. 26 hangers, less brackets, per pair.....	\$2.50
No. 31 track, black, per foot.....	.19
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

NOTE—Always specify brackets by number and give thickness of doors.

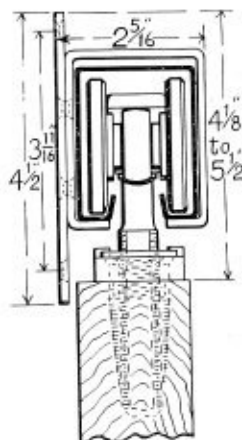
Discount.....

No. 226 R-W Ball-Bearing Elevator Door Hanger

FOR DOORS WEIGHING UP TO 300 POUNDS



Distance top of door
to bottom of track:
Minimum, 1 inch;
Maximum, $2\frac{3}{4}$ inches.



CROSS SECTION VIEW
WITH NO. 31x26
BRACKET

Track, No. 16 gauge steel, No. 31 type. Wheels, grey iron, lathe turned, $2\frac{1}{8}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, vertical only. Plate, regular, 5 inches long, $1\frac{3}{8}$ inches wide, for doors $1\frac{3}{8}$ inches or more in thickness; for thinner doors, specify plate $3\frac{1}{2}$ inches long, 1 inch wide. Weight: hangers, per pair, $4\frac{1}{2}$ pounds; track, per foot, $1\frac{3}{8}$ pounds.

PRICE LIST

No. 226 hangers, less brackets, per pair.....	\$2.50
No. 31 track, black, per foot.....	.19
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

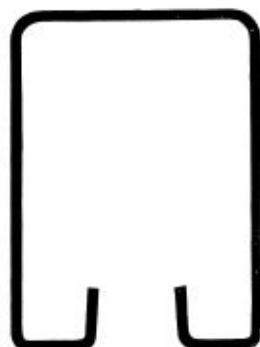
Discount.....

NOTE—Always specify brackets by number and give thickness of doors.



No. 126 R-W Ball-Bearing Trolley Door Hanger

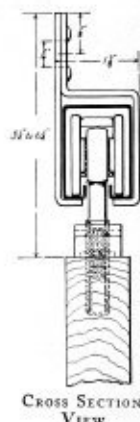
FOR DOORS WEIGHING UP TO 200 POUNDS



FULL SIZE CROSS SECTION OF
No. 30½ TROLLEY TRACK



Distance top of door to bottom of track:
Minimum, 1½ inches; Maximum,
2¾ inches.



Track, No. 16 gauge steel, No. 30½ type. Wheels, steel, 1¾ inches diameter. Steel frames and hardened bearings. Finish, black enamel. Adjustment, vertical only. Plate, 3½ inches long, 1 inch wide. Weight: hangers, per pair, 3 pounds; track, per foot, 1½ pounds.

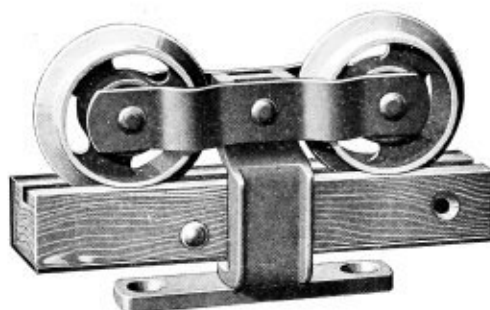
PRICE LIST

No. 126 hangers, less brackets, per pair.....	\$2.50
No. 30½ track, black, per foot.....	.16
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

NOTE—Always specify brackets by number.

Discount.....

No. 222 R-W Ball-Bearing Door Hanger (Wilcox No. 122½)



Clearance required
above top of door,
4¼ inches.

Distance top of door
to bottom of track,
5½ inch.

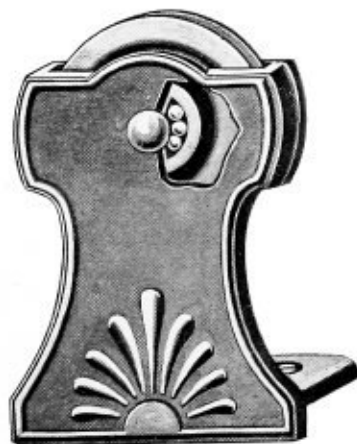
For wardrobe doors in school buildings and doors on large display cases.

Track, hard maple runway, reinforced by steel angle, No. 222 type. Made in 5, 6 and 7-foot lengths. Wheels, grey iron, lathe turned, 2¼ inches diameter. Bearings, steel balls. Finish, black enamel. Plate, 4 inches long, 1 inch wide. Weight: hangers, per pair, 3¼ pounds; track, per foot, 1½ pounds. Track is screwed or bolted to frame; no brackets required.

PRICE LIST

No. 222 hangers, per pair.....	\$2.40
No. 222 track, per foot.....	.40

Discount.....



Clearance required above top of door,
6 inches.

Distance top of door to top of track,
3 inches.

No. 432 R-W Standard Roller-Bearing Elevator Door Hanger

(Wilcox No. 132)

FOR DOORS 1½ INCHES OR MORE IN THICKNESS

Track, steel bar: No. 1, 2 x ½ inches, or No. 2, 2 x ⅝ inches, No. 432 type. Made up to 12-foot in length. Wheels, grey iron, lathe turned, 3½ inches diameter. Bearings, steel rollers. Finish, black enamel. Weight, hangers, per pair, 6½ pounds; track, per foot: No. 1, 1½ pounds; No. 2, 2 pounds. Track is screwed or bolted to frame; no brackets required.

PRICE LIST

No. 432 hangers, per pair.....	\$1.50
No. 432-1 track, per foot.....	.10
No. 432-2 track, per foot.....	.12

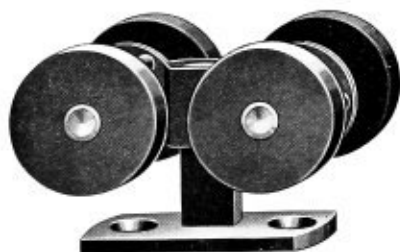
Discount.....



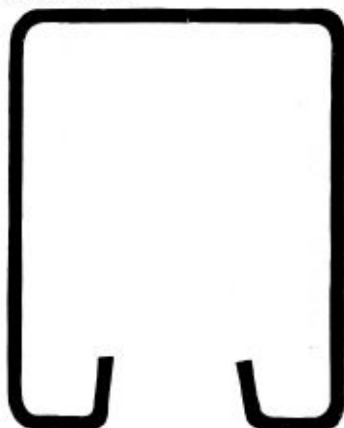
No. 220 R-W Ball-Bearing Trolley Door Hanger

(Wilcox No. 112)

FOR LIGHT SLIDING CLOSET, CUPBOARD AND WARDROBE DOORS



Distance top of door to bottom of track,
 $\frac{3}{4}$ inch.



FULL SIZE CROSS SECTION OF No. 31
TROLLEY TRACK

Track, No. 16 gauge steel, No. 31 type. Wheels, vulcanized fibre, $2\frac{1}{8}$ inches diameter. Bearings, steel balls. Finish, natural steel. Plate, 3 inches long, 1 inch wide. Weight: hangers, per pair, $1\frac{3}{4}$ pounds; track, per foot, $1\frac{3}{8}$ pounds.

PRICE LIST

No. 220 hangers, less brackets, per pair.....\$2.00

No. 31 track, black, per foot......19

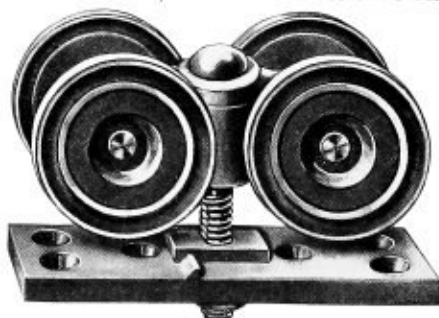
Brackets to suit requirements. For prices, etc., see pages 50, 51.

Discount.....

No. 214 R-W Ball-Bearing Trolley Door Hanger

(Wilcox No. Z-114)

FOR IRON AND WIRE GATE WORK, SLIDING VAULT DOORS AND METAL ENCLOSURES



Distance top of door
to bottom of track:
Minimum, $\frac{3}{4}$ inch;
Maximum, 1 inch.

Track, No. 16 gauge, No. 31 type. Wheels, metal, regular, $2\frac{1}{2}$ inches diameter; vulcanized fibre, if ordered. Bearings: metal wheels, roller bearing; fibre wheels, ball bearing. Plate, 5 inches long, $1\frac{1}{2}$ inches wide. Finish, natural steel. Weight: hangers, per pair, metal wheels, $4\frac{1}{2}$ pounds; fibre wheels, $2\frac{1}{2}$ pounds; track, per foot, $1\frac{3}{8}$ pounds.

PRICE LIST

No. 214 hangers, less brackets, per pair.....\$2.00

No. 31 track, black, per foot......19

Brackets to suit requirements. For prices, etc., see pages 50, 51.

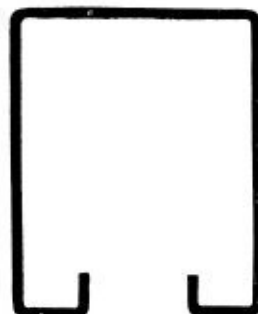
Discount.....

NOTE—Always specify brackets by number.

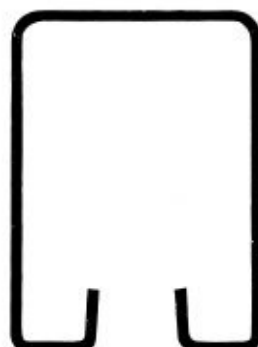
No. 030 R-W Ball-Bearing Display Rack Hanger

MADE IN TWO SIZES

NO. 1 FOR NO. 30 TRACK; NO. 2 FOR NO. 30½ TRACK

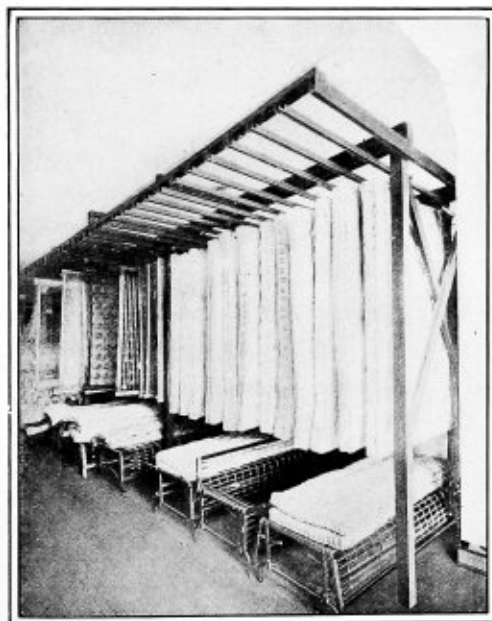


FULL SIZE CROSS SECTION OF NO. 30
TROLLEY TRACK



FULL SIZE CROSS SECTION OF
NO. 30½ TROLLEY TRACK

Distance end of pendant to bottom of track, 3¼ inches



DISPLAY RACK USING
ABOVE NO. 030
HANGERS

Designed especially for display racks, showing rugs, curtains, mattresses, screen and paneled doors, etc.

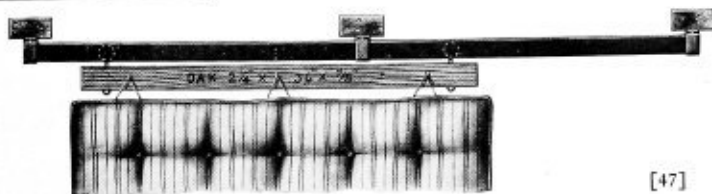
Track, No. 18 gauge steel, No. 30 type, for No. 1; No. 16 gauge steel, No. 30½ type for No. 2. Wheels, metal, for No. 1, 1½ inches, No. 2 1¾ inches diameter. Bearings, steel balls. Finish, natural steel. Adjustment, vertical. Weight, hangers, per pair: No. 1, 1 pound; No. 2, 1½ pounds. Track, per foot: No. 30, 1 pound; No. 30½, 1½ pounds.

PRICE LIST

No. 030-1 hangers, less brackets, per pair.....	\$2.00
No. 030-2 hangers, less brackets, per pair.....	2.00
No. 30 track, black, per foot.....	.15
No. 30½ track, black, per foot.....	.16
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

Discount.....

NOTE—Always specify brackets by number.



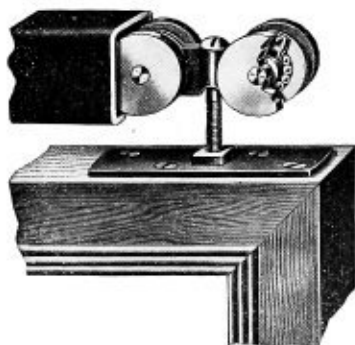


No. 30 R-W Bantam Ball-Bearing Trolley Hanger

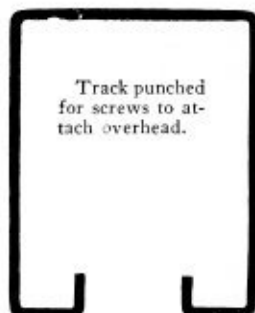
(WILCOX No. 120½)

FOR SLIDING PARTITIONS, WALL CASE DOORS, CUPBOARDS, BAKERY
AND MILK WAGON DOORS

SUITABLE FOR LIGHT DOORS ½ TO 1½ INCHES THICK



Distance top of door to bottom of track, 1 inch



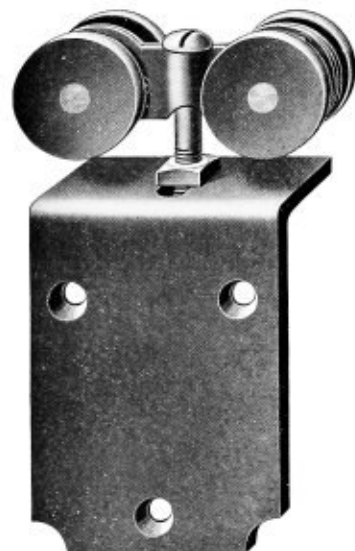
FULL SIZE CROSS SECTION OF No. 30
TROLLEY TRACK

Track, No. 18 gauge steel, No. 30 type. Wheels, vulcanized fibre, 1½ inches diameter, regular; metal, if ordered. Bearings, steel balls. Finish, black enamel. Adjustment, lateral and vertical. Weight: hangers, per pair, fibre wheels, 1 pound; metal wheels, 1½ pounds; track, per foot, 1 pound.

PRICE LIST

No. 30 hangers, less brackets, per pair.....	\$1.70
No. 30 track, per foot.....	.15
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

Discount.....



Distance top of door to bottom of
track, 1 inch.

No. 420 R-W Bantam Ball-Bearing Trolley Hanger

(WILCOX No. 420)

SUITABLE FOR LIGHT DOORS 1½ TO 1½ INCHES THICK

Track, No. 18 gauge steel, No. 30 type. Wheels, vulcanized fibre, 1½ inches diameter, regular; metal, if ordered. Bearings, steel balls. Finish, black enamel. Adjustment, lateral and vertical. Apron, 4 inches long, 3 inches wide, ¼ inch thick. Weight, hangers, per pair: Fibre wheels, 3 pounds; metal wheels, 3½ pounds; track, per foot, 1 pound.
NOTE—Always specify brackets by number.

PRICE LIST

No. 420 hangers, less brackets, per pair.....	\$2.30
No. 30 track, per foot.....	.15
Brackets to suit requirements. For prices, etc., see pages 50, 51.	

Discount.....

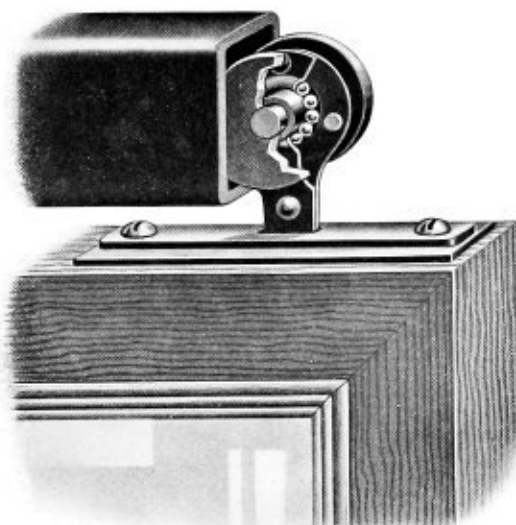


No. 0030 R-W Bantam Ball-Bearing Trolley Hanger

(WILCOX No. 120)

FOR LIGHT SLIDING PARTITIONS, WALL CASE DOORS, CUPBOARDS, BAKERY
AND MILK WAGON DOORS

SUITABLE FOR DOORS $\frac{1}{2}$ TO $1\frac{1}{2}$ INCHES THICK



Distance top of door to bottom of track, $\frac{5}{8}$ inch.

Track, No. 18 gauge steel, No. 30 type. Wheels, vulcanized fibre, $1\frac{1}{2}$ inches diameter, regular; steel, if ordered. Bearings, steel balls. Finish, black enamel. Adjustment, lateral only. Weight: hangers, per pair, fibre wheel, $\frac{1}{2}$ pound; metal wheel, 1 pound; track, per foot, 1 pound.
NOTE—Always specify brackets by number.

PRICE LIST

No. 0030 hangers, less brackets, per pair...\$1.60
No. 30 track, per foot......15
Brackets to suit requirements. For prices,
etc., see pages 50, 51.

Discount.....

No. 34 R-W Junior Steel Door Hanger

(WILCOX No. 134)

Suitable for light doors of any description. Locker, china closet and cupboard doors. Made in two styles: No. 1, offset pendant; No. 2, straight pendant.

Track: for No. 34-1, $\frac{3}{4}$ -inch V-shaped wrought brass, No. 34-1 type; for No. 34-2, $\frac{3}{4}$ -inch half round wrought brass, No. 34-2 type. Wheels, grey iron, $1\frac{1}{2}$ inches diameter. Pendant, steel, 7 inches long, $1\frac{1}{8}$ inches wide, $\frac{1}{8}$ inch thick. Finish, bronze plated and flat black. Packed one dozen pairs in a box. Weight: per dozen pairs, 12 pounds; track, No. 1 or No. 2, per 100 feet, 10 pounds.

PRICE LIST

No. 34-1 or 2 hangers, bronze plated, per dozen
pairs\$14.00
No. 34-1 or 2 hangers, flat black, per dozen pairs 12.00
No. 34-1 or 2 brass track, per foot......15

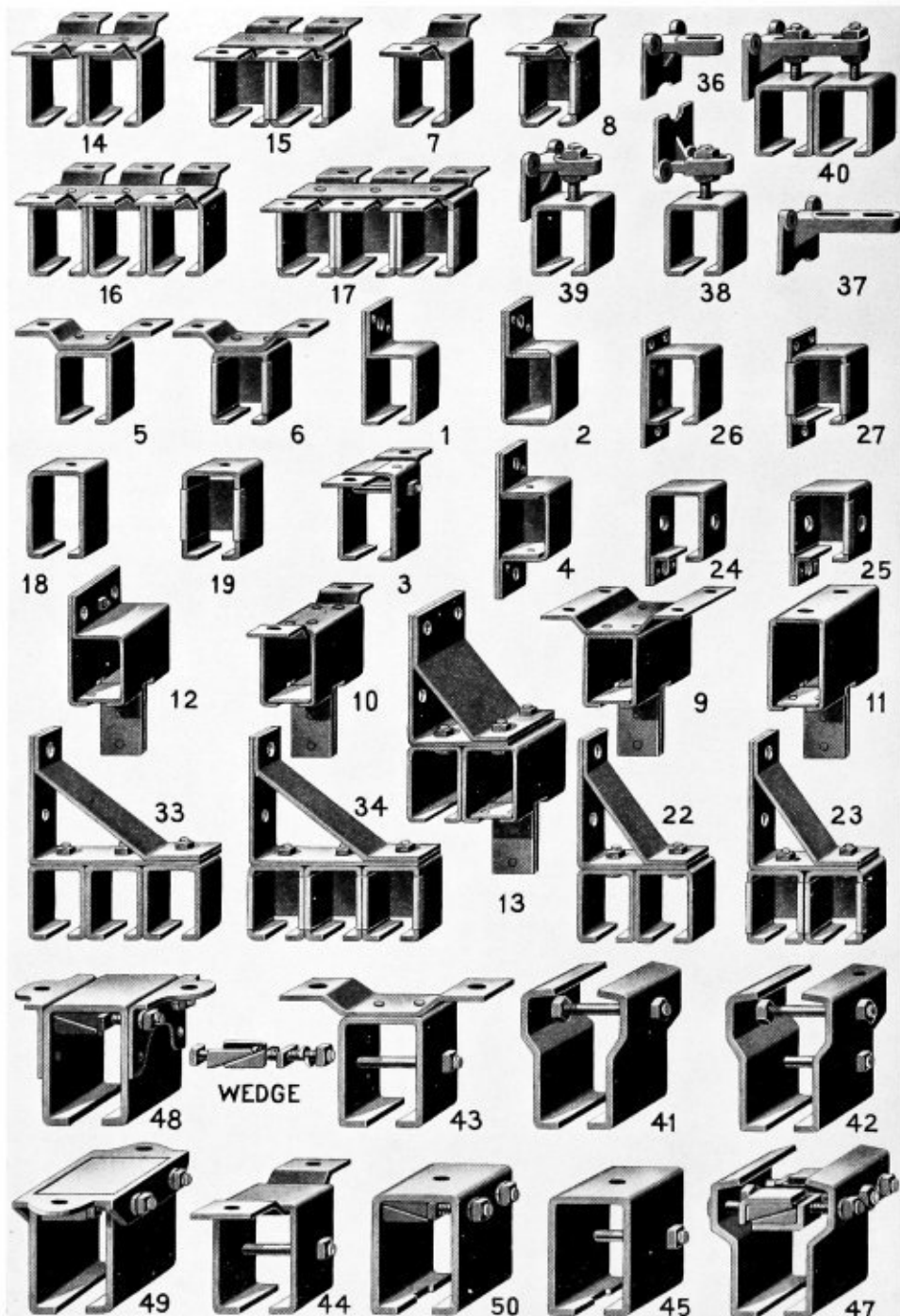
Discount.....



34-1



34-2



R-W Standard Trolley Track Brackets. Above numbers are style numbers only. See directions for ordering on opposite page.

R-W Trolley Track Brackets

ILLUSTRATED ON PRECEDING PAGE

NUMBERS, DESCRIPTION AND LIST PRICES, COVER BRACKETS IN BLACK ENAMEL FINISH

IMPORTANT—Always specify catalog number of track for which brackets are desired and finish. Example: A No. 1 style bracket for No. 30 track is wanted. Show as follows: 1 x 30 bracket; if for No. 33 track, show 1 x 33 bracket, etc.

Bracket No.	Description	For Track Number—Price Each						
		30	30½	31, 75 or 526	32	33	35	232
1	Side Center Bracket	\$.15	\$.16	\$.16	\$.28	\$.44	\$.16	\$.34
2	Side Right or Left End Bracket	.15	.16	.16	.28	.44	.16	.34
3	Split Bracket	.24	.25	.30	.40	.70	x	.60
4	Side Special End Bracket	x	x	.20	x	x	x	x
5	Cross Ear Ceiling Center Bracket	.15	.16	.16	.28	.44	x	.34
6	Cross Ear Ceiling Right or Left End Bracket	.15	.16	.16	.28	.44	x	.34
7	Parallel Ear Ceiling Center Bracket	.15	.16	.16	.28	.44	x	.34
8	Parallel Ear Ceiling Right or Left End Bracket	.15	.16	.16	.28	.44	x	.34
9	Cross Ear Ceiling Center Stop Bracket	x	x	.50	.70	1.00	x	.80
10	Parallel Ear Ceiling Center Stop Bracket	x	x	.50	.70	1.00	x	.80
11	Plain Ceiling Center Stop Bracket	x	x	.50	.70	1.00	x	.80
12	Side Center Stop Bracket	x	.50	.50	.70	1.00	.50	.80
13	Side Double Half Center Stop Bracket	x	.80	1.00	1.40	2.00	1.00	1.60
14	Parallel Ear Ceiling Double Center Bracket	x	x	.50	.70	1.00	x	.80
15	Parallel Ear Ceiling Double Right or Left End Bracket	x	x	.50	.70	1.00	x	.80
16	Parallel Ear Ceiling Triple Center Bracket	x	x	1.00	1.30	1.80	x	1.50
17	Parallel Ear Ceiling Triple Right or Left End Bracket	x	x	1.00	1.30	1.80	x	1.50
18	Plain Ceiling Center Bracket	.15	.16	.16	.28	.44	x	.34
19	Plain Ceiling Right or Left End Bracket	.15	.16	.16	.28	.44	x	.34
20								
21								
22	Side Double Center Bracket	.50	.50	.50	.70	1.00	.50	.90
23	Side Double Right or Left End Bracket	.50	.50	.50	.70	1.00	.50	.90
24	Inverted Ear Center Side Bracket	x	x	.16	x	x	x	x
25	Inverted Ear Right or Left End Side Bracket	x	x	.16	x	x	x	x
26	Light Inverted Ear Side Center Bracket	x	x	.16	x	x	x	x
27	Light Inverted Ear Side Right or Left End Bracket	x	x	.16	x	x	x	x
28								
29								
30								
31								
32								
33	Side Triple Center Bracket	x	x	.80	1.00	1.50	.80	1.30
34	Side Triple Right or Left End Bracket	x	x	.80	1.00	1.50	.80	1.30
35								
36	Side Single Bracket Support (malleable iron)	x	x	.30	x	x	x	x
37	Side Double Bracket Support (malleable iron)	x	x	.40	x	x	x	x
38	Side Single Bracket with Malleable Iron Support	x	x	.50	x	x	x	x
39	Side Single Bracket with Inverted Malleable Iron Support	x	x	.50	x	x	x	x
40	Side Double Bracket with Malleable Iron Support	x	x	.90	x	x	x	x
41	I Beam Center Bracket	x	x	.40	x	.60	x	x
42	I Beam End Bracket with Bolt	x	x	.40	x	.60	x	x
43	Cross Ear Ceiling Right or Left End Bracket with Bolt	x	x	.40	x	.60	x	x
44	Parallel Ear Ceiling Right or Left End Bracket with Bolt	x	x	.40	x	.60	x	x
45	Plain Ceiling Right or Left End Bracket with Bolt	x	x	.40	x	.60	x	x
46								
47	I Beam Joint Bracket with Wedge	x	x	x	x	1.80	x	x
48	Cross Ear Ceiling Joint Bracket with Wedge	x	x	x	x	1.80	x	x
49	Parallel Ear Ceiling Joint Bracket with Wedge	x	x	x	x	1.80	x	x
50	Plain Ceiling Joint Bracket with Wedge	x	x	x	x	1.50	x	x

NOTE—X indicates "Not manufactured for this type of track."

Discount.....

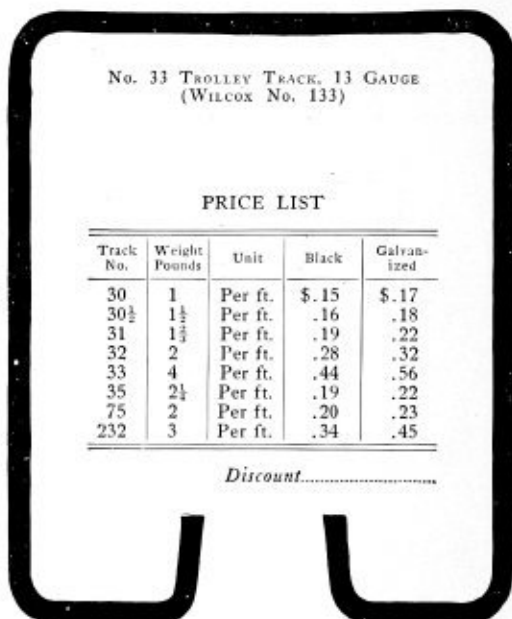
When ordering I-Beam Brackets, always specify size and weight per foot of I-beam.

For galvanized brackets, add 15% to above list prices on Nos. 30, 30½, 31, 32, 35, 75 and 526 track, and 20% on Nos. 33 and 232 track.

R-W Standard Size Trolley Tracks



These tracks furnished in black enamel or galvanized as desired.



PRICE LIST

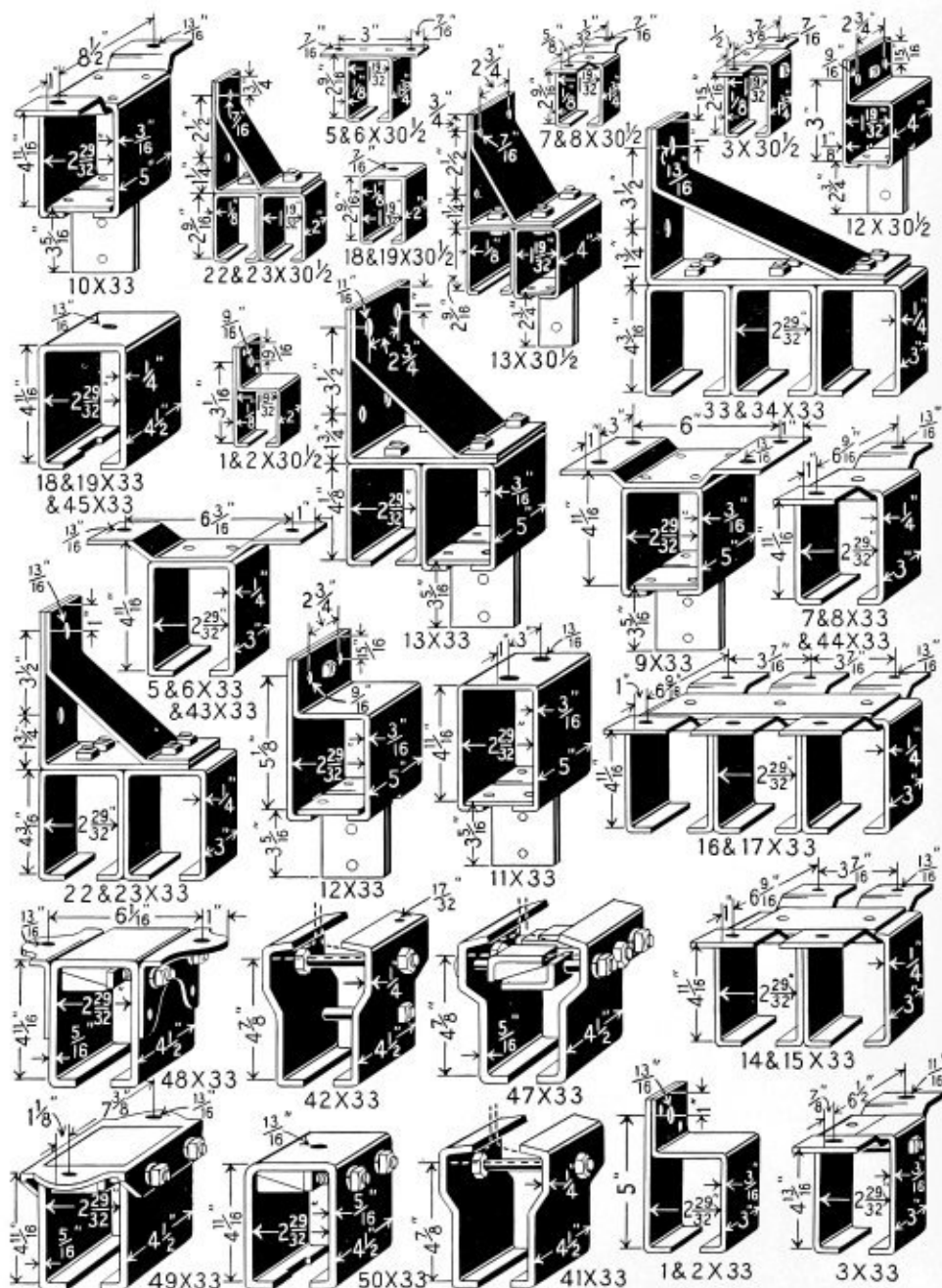
Track No.	Weight Pounds	Unit	Black	Galvanized
30	1	Per ft.	\$.15	\$.17
30 1/2	1 1/2	Per ft.	.16	.18
31	1 3/4	Per ft.	.19	.22
32	2	Per ft.	.28	.32
33	4	Per ft.	.44	.56
35	2 1/2	Per ft.	.19	.22
75	2	Per ft.	.20	.23
232	3	Per ft.	.34	.45

Discount.....

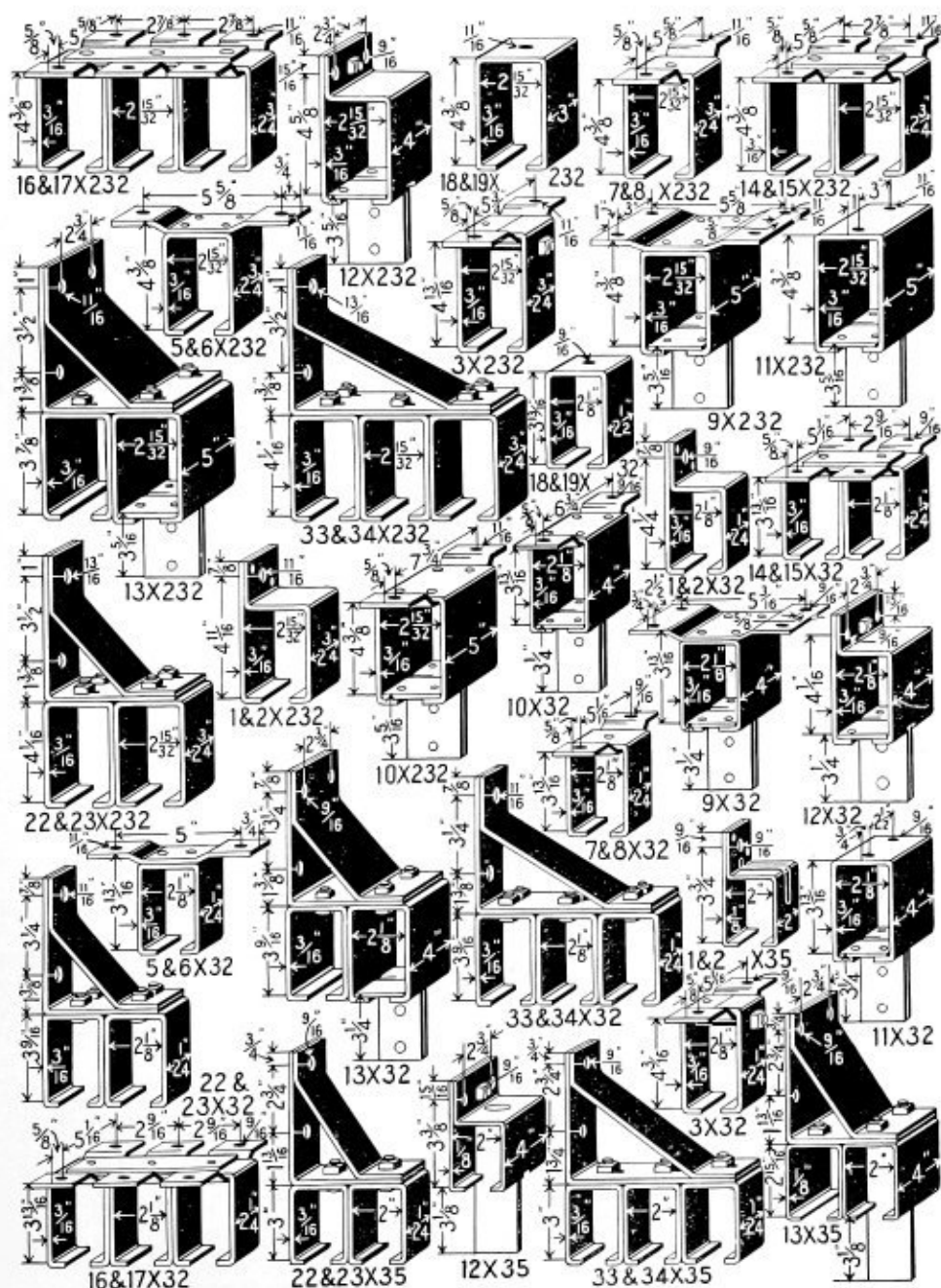


Tracks shown are all full size cross section. Furnished in lengths up to ten feet in one piece. Brackets furnished for these tracks to suit requirements. Brackets illustrated on page 50.

Dimensions of R-W Standard Trolley Track Brackets for Nos. 30 $\frac{1}{2}$ and 33 Track



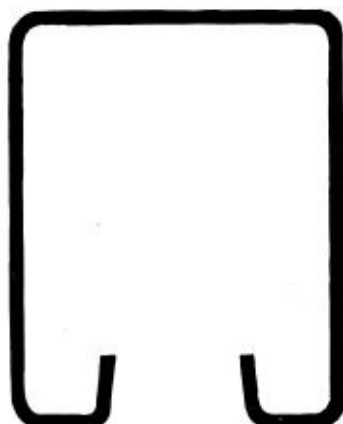
Dimensions of R-W Standard Trolley Track Brackets for Nos. 32, 35 and 232 Track



No. 20 R-W Gem Trolley Roller-Bearing Door Hanger

(WILCOX No. 123)

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS



FULL SIZE CROSS SECTION OF No. 31
TROLLEY TRACK



Distance top of
door to bottom
of track,
1½ inches.

Bottom of track
to center of hole
in bracket,
3¼ inches.

Wheels, grey iron, lathe turned, 2½ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Apron, 6 inches long, 3½ inches wide, ½ inch thick, punched for ¼-inch bolts. For doors 1¾ to 2½ inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with 7-16 x 2½-inch lag screws in metal edge box. Weight: hangers, per pair, 10 pounds; track, per foot, 1½ pounds; brackets, each, ¾ pound.

PRICE LIST

	BLACK	*GALV.
No. 20 hangers, with 2 end and 1 center bracket, per pair.....	\$2.30	\$2.60
No. 20 hangers only, per pair.....	1.85	2.05
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

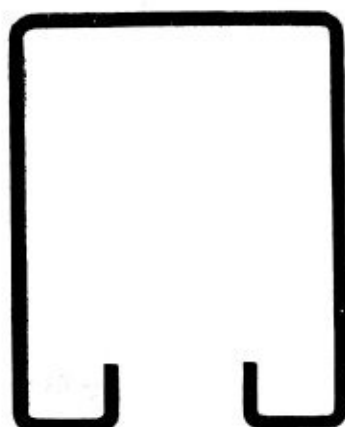
Discount.....

*Exposed parts of hangers only are galvanized.

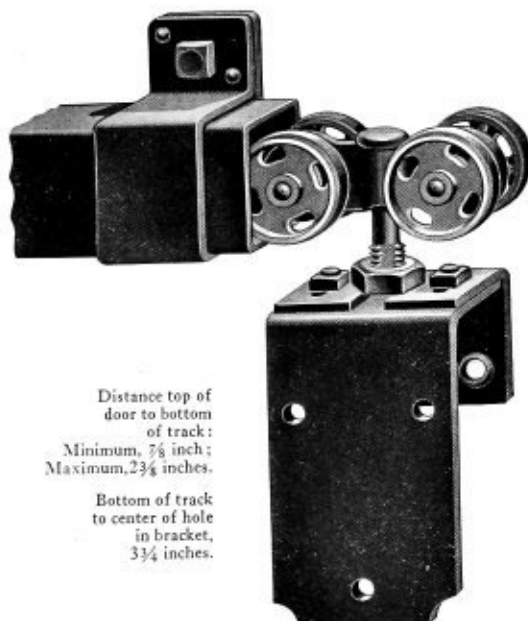
NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

No. 20 $\frac{1}{2}$ B R-W Stayrite Trolley Ball-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS



FULL SIZE CROSS SECTION OF No. 31
Trolley Track



Distance top of
door to bottom
of track:
Minimum, $7\frac{1}{8}$ inch;
Maximum, $23\frac{1}{4}$ inches.

Bottom of track
to center of hole
in bracket,
 $3\frac{1}{4}$ inches.

Wheels, grey iron, lathe turned, $2\frac{1}{8}$ inches diameter. Steel frames and hardened bearings. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to $2\frac{1}{2}$ inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with 7-16 x $2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, 11 pounds; track, per foot, $1\frac{2}{3}$ pounds; brackets, each, $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 20 $\frac{1}{2}$ B hangers, with 2 end and 1 center bracket, per pair.....	\$2.70	\$3.00
No. 20 $\frac{1}{2}$ B hangers only, per pair.....	2.25	2.45
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

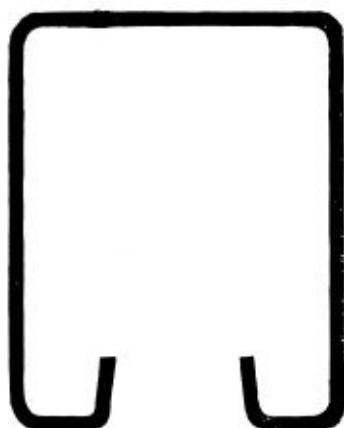
NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

No. 021

R-W Du Flex Trolley Roller-Bearing Door Hanger

FOR LIGHT DOORS AND GATES

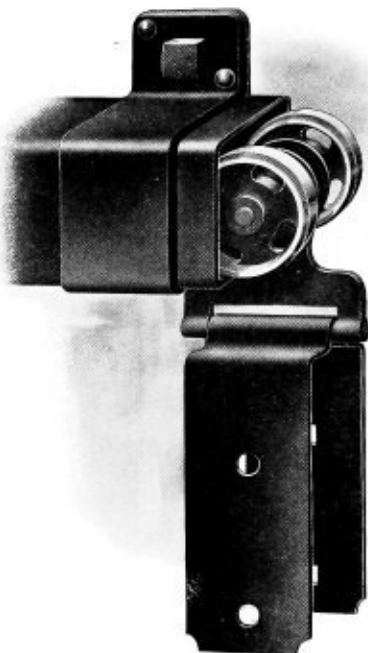
WEIGHING APPROXIMATELY 100 POUNDS



FULL SIZE CROSS SECTION OF NO. 31
TROLLEY TRACK

Distance top of
door to bottom
of track,
 $1\frac{3}{8}$ inches.

Bottom of track
to center of hole
in bracket,
 $3\frac{3}{4}$ inches.



Wheels, grey iron, lathe turned, $2\frac{1}{8}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Flexible joint. Apron, hinged, 5 inches long, $2\frac{1}{4}$ inches wide, 1-16 inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts, one center and two end brackets with $\frac{7}{16} \times 2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, 6 pounds; track, per foot, $1\frac{2}{3}$ pounds; brackets, each $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 021 hangers, with 2 end and 1 center bracket, per pair.....	\$1.70	\$1.90
No. 021 hangers only, per pair.....	1.25	1.35
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51. Brackets should be spaced not to exceed 30-inch centers.

No. 21

R-W Flexo Trolley Roller-Bearing Door Hanger

(WILCOX No. 323)

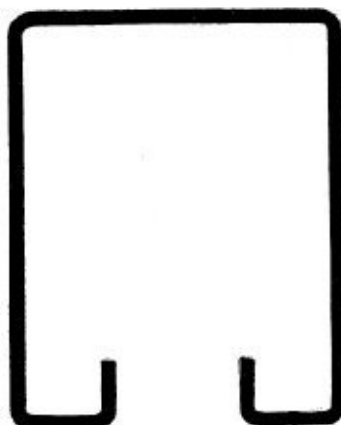
FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS

Distance top of
door to bottom
of track,
1 1/4 inches.

Bottom of track
to center of
hole in bracket.
3 3/4 inches.



PATENTED FEB. 25, 1902



FULL SIZE CROSS SECTION OF NO. 31
TROLLEY TRACK

Wheels, grey iron, lathe turned, 2 1/8 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Flexible joint. Apron, hinged, 5 inches long, 2 1/4 inches wide, 1/8 inch thick, punched for 5/16-inch bolts. For doors 1 3/4 to 2 inches thick. Packed one pair of hangers with carriage bolts, one center and two end brackets with 7/8 x 2 1/2-inch lag screws in metal edge box. Weight: hangers, per pair, 8 1/2 pounds; track, per foot, 1 3/8 pounds; brackets, each, 3/4 pound.

PRICE LIST

	BLACK	*GALV.
No. 21 hangers, with 2 end and 1 center bracket, per pair.....	\$2.30	\$2.60
No. 21 hangers only, per pair.....	1.85	2.05
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

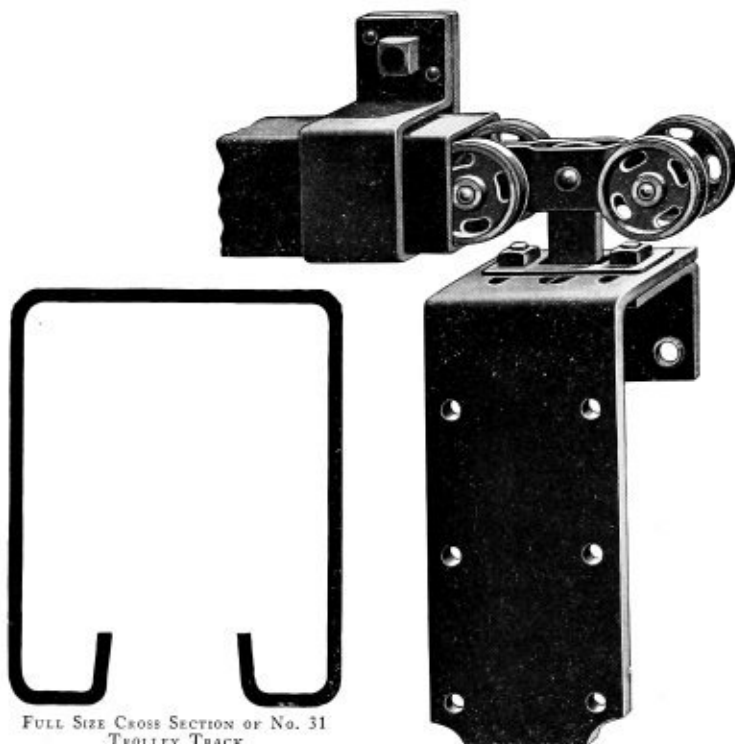
NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

No. 24 R-W Superior Trolley Roller-Bearing Door Hanger

(WILCOX No. 124-124½)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 400 POUNDS



Distance top of door to bottom of track, 1½ inches.

Bottom of track to center of hole in bracket, 3¾ inches.

FULL SIZE CROSS SECTION OF NO. 31 TROLLEY TRACK

Wheels, grey iron, lathe turned, 2½ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Apron, 9 inches long, 4 inches wide, ⅜ inch thick, punched for ⅞-inch bolts. No. 1 for doors 1½ to 2 inches; No. 2 for doors 2¼ to 2½ inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with ⅞ x 2½-inch lag screws in metal edge box. Weight: hangers, per pair, 14 pounds; track, per foot, 1⅔ pounds; brackets, each, ¾ pound.

PRICE LIST

BLACK *GALV.

No. 24-1 or 2 hangers, with 2 end and 1 center bracket, per pair.....	\$2.60	\$3.00
No. 24-1 or 2 hangers only, per pair.....	2.15	2.45
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

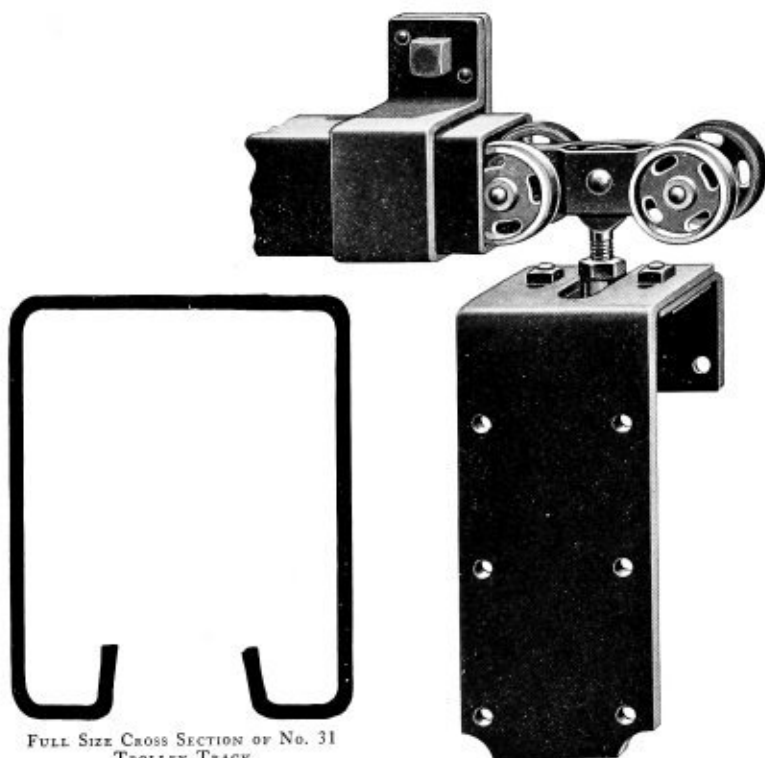
NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51. Brackets should be spaced not to exceed 30-inch centers.

No. 25 R-W Peerless Trolley Roller-Bearing Door Hanger

(Wilcox No. 224-224½)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 400 POUNDS



Distance top of door to bottom of track:
Minimum, 1¼ inches;
Maximum, 2½ inches.

Bottom of track to center of hole in bracket,
3¾ inches.

FULL SIZE CROSS SECTION OF NO. 31
TROLLEY TRACK

Wheels, grey iron, lathe turned, 2½ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4 inches wide, ⅜ inch thick, punched for ⅝-inch bolts. No. 1 for doors 1¾ to 2 inches; No. 2 for doors 2¼ to 2½ inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with ⅞ x 2½-inch lag screws in metal edge box. Weight: hangers, per pair, 14 pounds; track, per foot, 1½ pounds; brackets, each, ¾ pound.

PRICE LIST

	BLACK	*GALV.
No. 25-1 or 2 hangers, with 2 end and 1 center bracket, per pair.....	\$2.70	\$3.10
No. 25-1 or 2 hangers only, per pair.....	2.25	2.55
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

Discount.....

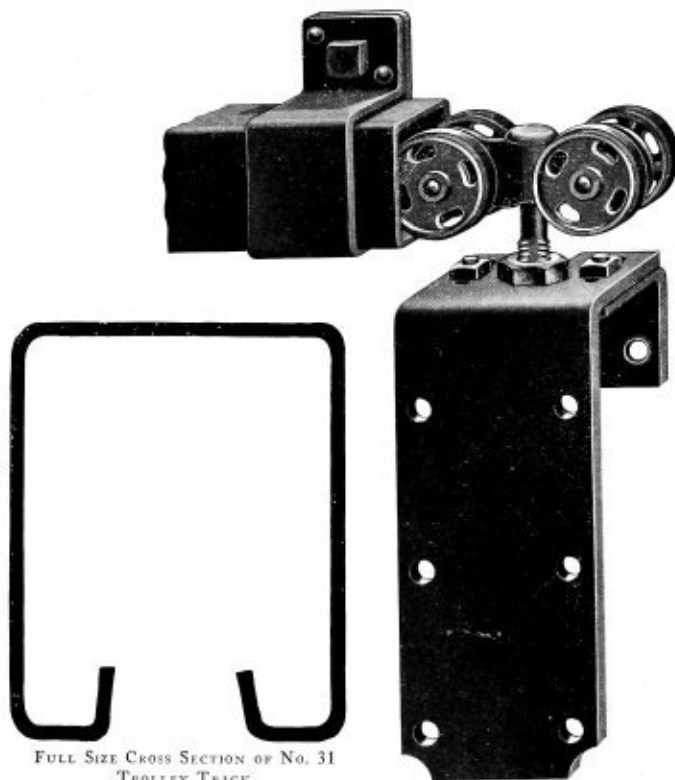
*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

No. 27½ B

R-W Expansion Trolley Ball-Bearing Door Hanger

MADE IN TWO SIZES
FOR DOORS WEIGHING APPROXIMATELY 400 POUNDS



Distance top of door
to bottom of track—
minimum, 7¼ inch;
maximum, 2¾ inches;
bottom of track to center
of hole in bracket,
3¾ inches.

Wheels, gray iron, lathe turned, 2½ inches diameter. Steel frames and hardened bearings. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4 inches wide, ¼ inch thick, punched for ½-inch bolts. No. 1 for doors 1½ to 2 inches thick. No. 2 for doors 2¼ to 2¾ inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with ¾ x 2½-inch lag screws in metal edge box. Weight hangers, per pair, 15 pounds; track, per foot, 1½ pounds; brackets, each, ¾ pound.

PRICE LIST

	BLACK	*GALV.
No. 27½ B-1 or 2 Hangers with two end and one center bracket, per pair.....	\$3.70	\$4.00
No. 27½ B-1 or 2 Hangers only, per pair.....	3.25	3.45
No. 27½ B-1 or 2 Knuckle-joint Hangers only (for curved track), per pair.....	4.70	5.00
No. 31 Track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

*Exposed parts of hangers only are galvanized.

Discount.....

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50 and 51.

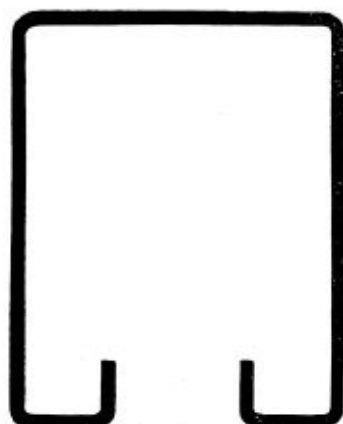
Brackets should be spaced not to exceed 30-inch centers.

No. 321

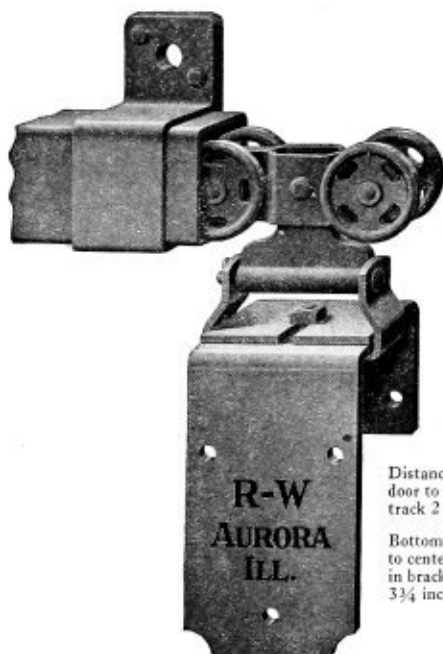
R-W Tip Top Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS

PATENT
PENDING



FULL SIZE CROSS SECTION OF No. 31
TROLLEY TRACK



Distance top of
door to bottom of
track 2 inches.

Bottom of track
to center of hole
in bracket,
3 1/4 inches.

Wheels, grey iron, lathe turned, 2 1/8 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Flexible joint. Apron, 6 inches long, 3 1/2 inches wide, 1/8 inch thick, punched for 5/16-inch bolts. For doors 1 1/4 to 2 1/2 inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with 7/8 x 2 1/2-inch lag screws in metal edge box. Weight: hangers, per pair, 10 pounds; track, per foot, 1 3/4 pounds; brackets, each, 3/4 pound.

PRICE LIST

	BLACK	*GALV.
No. 321 hangers, with 2 end and 1 center bracket, per pair.....	\$2.30	\$2.60
No. 321 hangers only, per pair.....	1.85	2.05
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

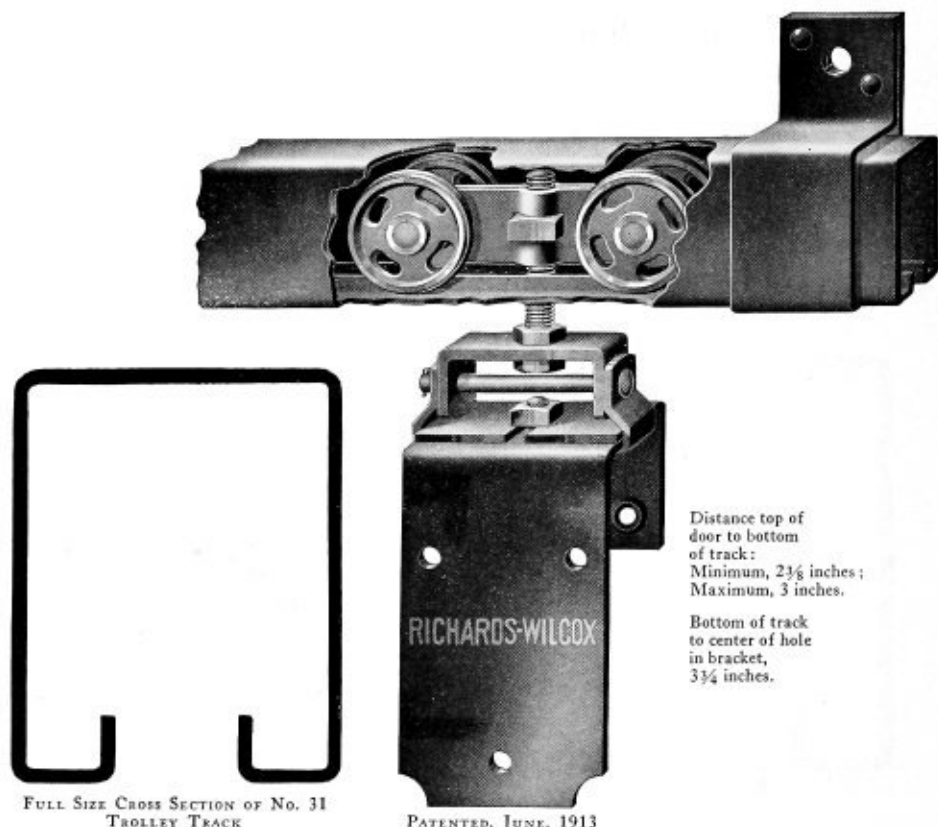
Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51. Brackets should be spaced not to exceed 30-inch centers.

No. 621 R-W Justaflex Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS



Wheels, grey iron, lathe turned, $2\frac{1}{8}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Flexible joint. Apron, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{1}{8}$ inch thick punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to $2\frac{1}{2}$ inches thick. Packed one pair of hangers with carriage and stove bolts, one adjusting wrench, one center and two end brackets with $\frac{7}{8} \times 2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, $11\frac{1}{2}$ pounds; track, per foot $1\frac{3}{8}$ pounds; brackets, each $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 621 hangers, with 2 end and 1 center bracket, per pair.....	\$2.40	\$2.70
No. 621 hangers only, per pair.....	1.95	2.15
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

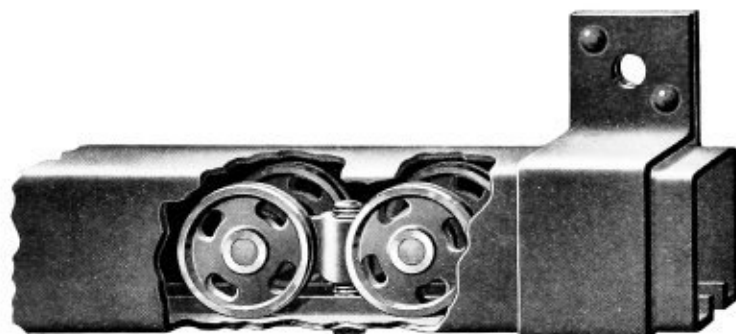
Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51. Brackets should be spaced not to exceed 30-inch centers.

No. 821 R-W Red Jacket Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS

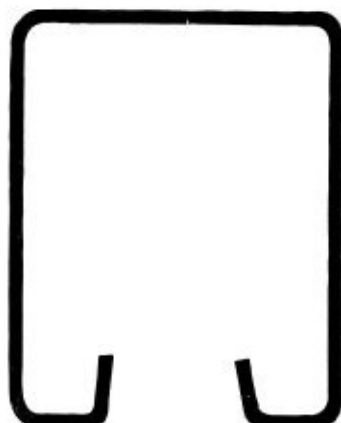


Distance top of
door to bottom
of track:
Minimum,
1 3/4 inches;
Maximum,
2 1/2 inches.

Bottom of track
to center of hole
in bracket,
3 3/4 inches.



PATENTED MARCH, 1914



FULL SIZE CROSS SECTION OF No. 31
TROLLEY TRACK

Wheels, grey iron, lathe turned, 2 1/8 inches diameter. Bearings, steel rollers. Finish, black and red enamel or galvanized. Adjustment, lateral and vertical. Flexible joint. Apron, hinged, 5 inches long, 2 1/4 inches wide, 1/8 inch thick, punched for 5/16-inch bolts. For doors 1 3/4 to 2 inches thick. Packed one pair of hangers with carriage bolts, one adjusting wrench, one center and two end brackets with 7/16 x 2 1/2-inch lag screws in metal edge box. Weight: hangers, per pair, 9 pounds; track, per foot, 1 3/8 pounds; brackets, each, 3/4 pound.

PRICE LIST

	BLACK	*GALV.
No. 821 hangers, with 2 end and 1 center bracket, per pair.....	\$2.40	\$2.70
No. 821 hangers only, per pair.....	1.95	2.15
No. 31 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 31 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

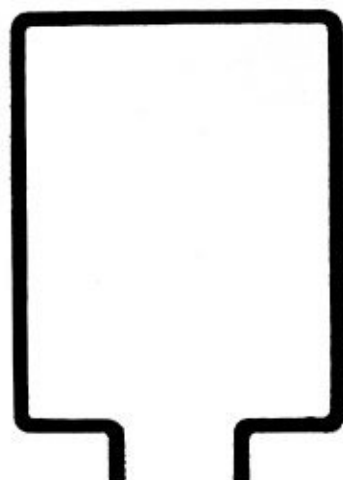
No. 0521 R-W Spartan Trolley Roller-Bearing Door Hanger

FOR LIGHT DOORS AND GATES WEIGHING APPROXIMATELY 100 POUNDS



Distance top of
to bottom of track,
 $1\frac{3}{4}$ inches.

Bottom of track
to center of hole
in bracket,
 $3\frac{1}{4}$ inches.



FULL SIZE CROSS SECTION OF No. 35
TROLLEY TRACK

Wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Flexible joint. Apron, hinged, 5 inches long, $2\frac{1}{4}$ inches wide, 1-16 inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts, one center and two end brackets with $\frac{7}{16}$ x $2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, 6 pounds; track, per foot, $2\frac{1}{4}$ pounds; brackets, each, $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 0521 hangers, with 2 end and 1 center bracket, per pair.....	\$1.70	\$1.90
No. 0521 hangers only, per pair.....	1.25	1.35
No. 35 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 35 brackets, with lag screws, each.....	.16	.19

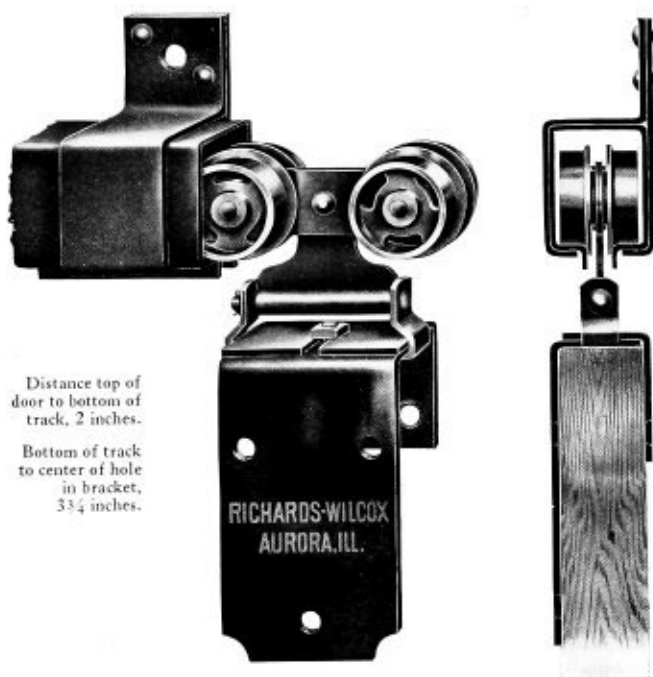
Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

No. 421 R-W Corn Belt Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 400 POUNDS



PATENT PENDING

Wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Flexible joint. Apron, hinged, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to $2\frac{1}{2}$ inches thick. Packed one pair of hangers with carriage and stove bolts, one center and two end brackets with $\frac{1}{2}$ x $2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, 11 pounds; track, per foot, $2\frac{1}{4}$ pounds; brackets, each, $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 421 hangers, with 2 end and 1 center bracket, per pair.....	\$2.30	\$2.60
No. 421 hangers only, per pair.....	1.85	2.05
No. 35 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 35 brackets, with lag screws, each.....	.16	.19

Discount.....

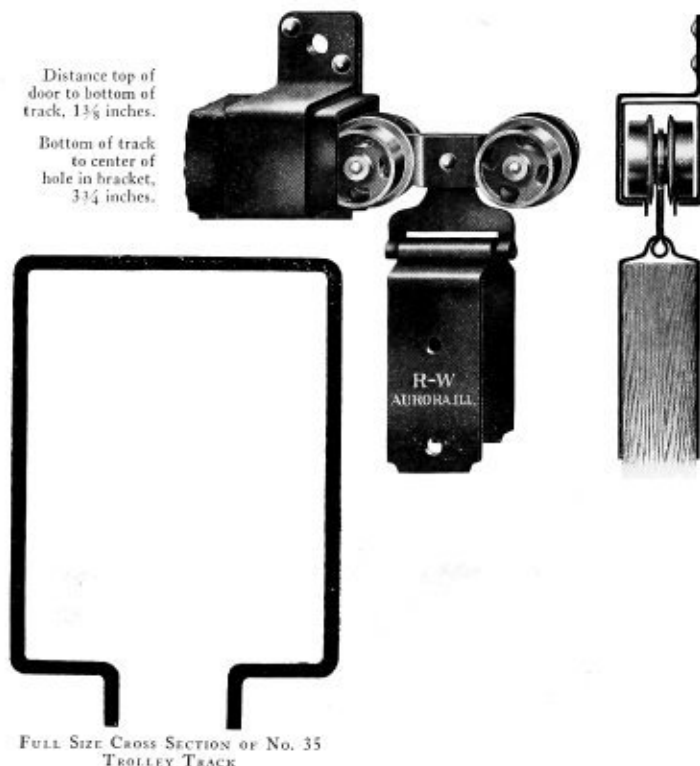
*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.

Brackets should be spaced not to exceed 30-inch centers.

No. 521 R-W Run-Free Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS



Wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Flexible joint. Apron, hinged, 5 inches long, $2\frac{1}{4}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts, one center and two end brackets with $\frac{7}{16} \times 2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, $8\frac{1}{2}$ pounds; track, per foot, $2\frac{1}{4}$ pounds; brackets, each, $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 521 hangers, with 2 end and 1 center bracket, per pair.....	\$2.30	\$2.60
No. 521 hangers only, per pair.....	1.85	2.05
No. 35 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 35 brackets, with lag screws, each.....	.16	.19

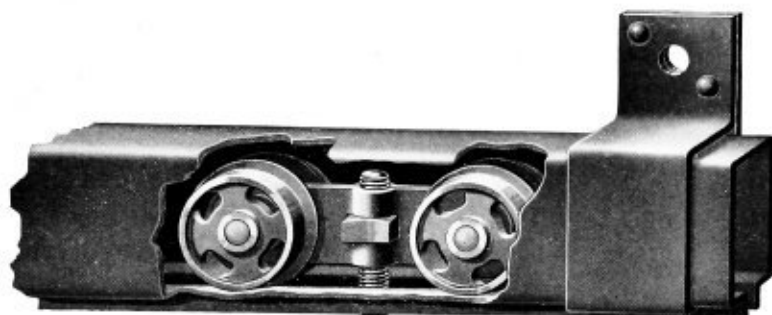
Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51. Brackets should be spaced not to exceed 30-inch centers.

No. 721 R-W Flexajust Trolley Roller-Bearing Door Hanger

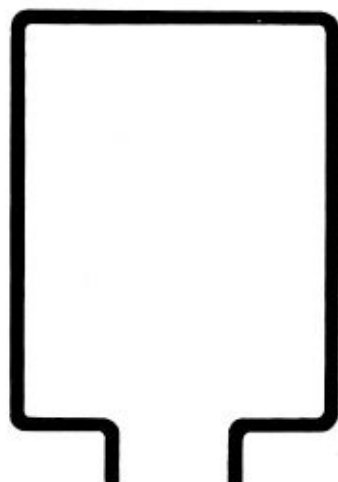
FOR DOORS WEIGHING APPROXIMATELY 400 POUNDS



PATENTED
JUNE, 1913

Distance top of
door to bottom
of track:
Minimum,
2 5/8 inches;
Maximum,
3 1/2 inches.

Bottom of track
to center of
hole in bracket,
3 3/4 inches.



FULL SIZE CROSS SECTION OF NO. 35
TROLLEY TRACK

Wheels, grey iron, lathe turned, 2 1/4 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Flexible joint. Apron, hinged, 6 inches long, 3 1/2 inches wide, 1/2 inch thick, punched for 5/8-inch bolts. For doors 1 3/4 to 2 1/2 inches thick. Packed one pair of hangers with carriage and stove bolts, one adjusting wrench, one center and two end brackets with 1/2 x 2 1/2-inch lag screws in metal edge box. Weight: hangers, per pair, 11 1/2 pounds; track, per foot, 2 1/4 pounds; brackets, each, 3/4 pound.

PRICE LIST

	BLACK	*GALV.
No. 721 hangers, with 2 end and 1 center bracket, per pair.....	\$2.40	\$2.70
No. 721 hangers only, per pair.....	1.95	2.15
No. 35 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 35 brackets, with lag screws, each.....	.16	.19

Discount.....

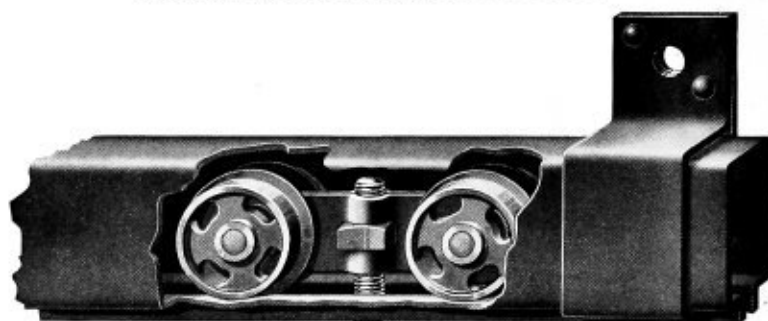
*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.



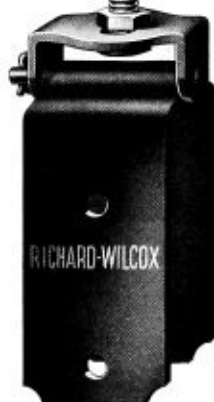
No. 921 R-W Adjustrite Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS



Distance top of
door to bottom
of track:
Minimum,
 $2\frac{1}{8}$ inches;
Maximum,
3 inches.

Bottom of track
to center of hole
in bracket,
 $3\frac{1}{4}$ inches.



PATENTED
MARCH, 1914



FULL SIZE CROSS SECTION OF NO. 35
TROLLEY TRACK

Wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Flexible joint. Apron, hinged, 5 inches long, $2\frac{1}{4}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts, one adjusting wrench, one center and two end brackets with $\frac{7}{8}$ x $2\frac{1}{2}$ -inch lag screws in metal edge box. Weight: hangers, per pair, $9\frac{1}{2}$ pounds; track, per foot, $2\frac{1}{4}$ pounds; brackets, each, $\frac{3}{4}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 921 hangers, with 2 end and 1 center bracket, per pair.....	\$2.40	\$2.70
No. 921 hangers only, per pair.....	1.95	2.15
No. 35 track, 4, 6, 8 and 10-foot lengths (8 pieces to bundle), per foot.....	.19	.22
Extra, No. 1 x 35 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

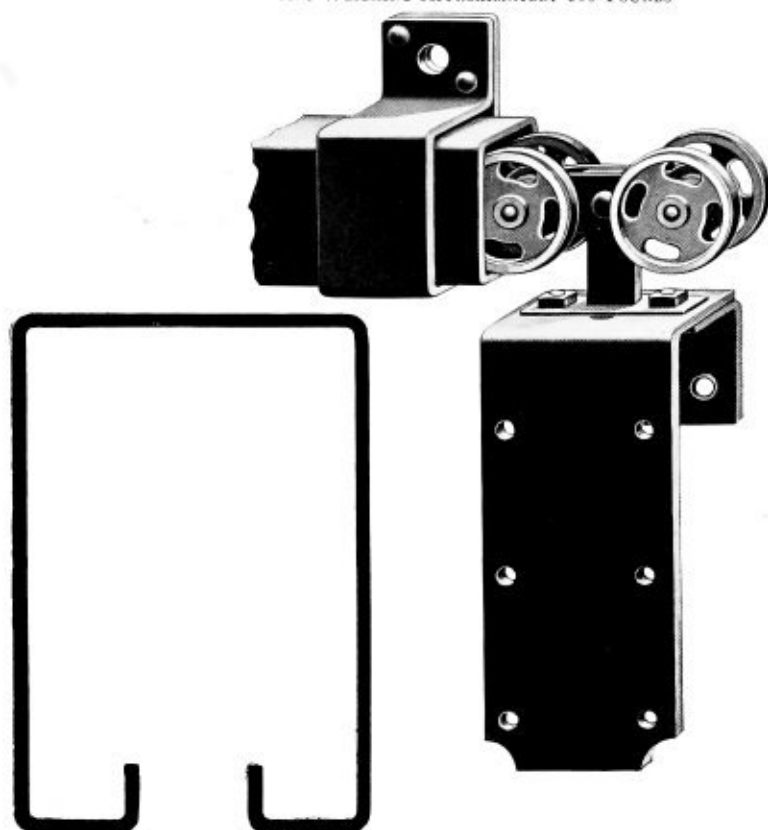
NOTE—Specify on order if extra brackets are desired. For other types of brackets, see pages 50, 51.
Brackets should be spaced not to exceed 30-inch centers.

No. 28 L R-W Acme Trolley Roller-Bearing Door Hanger

(OLD NUMBER R 28-1)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 500 POUNDS



Distance top of door to bottom of track, 1 1/4 inches.

Bottom of track to center of hole in bracket, 4 1/4 inches.

FULL SIZE CROSS SECTION OF No. 32
TROLLEY TRACK

Wheels, grey iron, lathe turned, 2 1/2 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Apron, 9 inches long, 4 inches wide, 1/8-inch thick, punched for 5/16-inch bolts. No. 1 for doors 1 3/4 to 2 inches, No. 2 for doors 2 1/4 to 2 3/4 inches thick. Packed one pair of hangers with carriage and stove bolts in metal edge box. Weight: hangers, per pair, 11 1/2 pounds; track, per foot, 2 1/2 pounds; brackets, each, 1 3/4 pounds.

PRICE LIST

	BLACK	*GALV.
No. 28 L-1 or 2 hangers, less brackets, per pair.....	\$3.00	\$3.40
No. 32 track, 4, 6, 8 and 10-foot lengths (6 pieces to bundle), per foot.....	.28	.32
No. 1 x 32 center brackets, less lag screws, each.....	.28	.32
No. 2 x 32 end brackets, less lag screws, each.....	.28	.32

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.

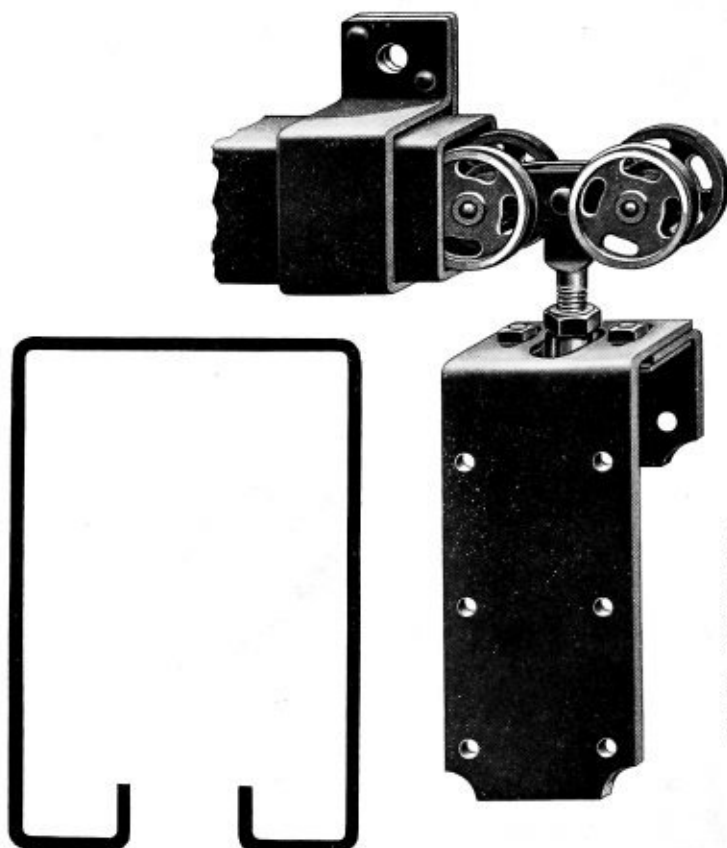


No. 28 V R-W Premium Trolley Roller-Bearing Door Hanger

(OLD NUMBER R 28-2)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 500 POUNDS



Distance top of door to bottom of track:
Minimum,
1 5/8 inches;
Maximum,
2 3/8 inches.

Bottom of track to center of hole in bracket,
4 1/4 inches.

FULL SIZE CROSS SECTION OF No. 32
TROLLEY TRACK

Wheels, grey iron, lathe turned, 2 1/2 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4 inches wide, 1/16 inch thick, punched for 1/8-inch bolts. No. 1 for doors 1 3/4 to 2 inches, No. 2 for doors 2 1/4 to 2 3/4 inches thick. Packed one pair of hangers with carriage and stove bolts in metal edge box. Weight: hangers, per pair, 12 pounds; track, per foot, 2 1/2 pounds; brackets, each, 1 3/4 pounds.

PRICE LIST

	BLACK	*GALV.
No. 28 V-1 or 2 hangers, less brackets, per pair.....	\$3.20	\$3.60
No. 32 track, 4, 6, 8 and 10-foot lengths (6 pieces to bundle), per foot.....	.28	.32
No. 1 x 32 center brackets, less lag screws, each.....	.28	.32
No. 2 x 32 end brackets, less lag screws, each.....	.28	.32

*Exposed parts of hangers only are galvanized.

Discount.....

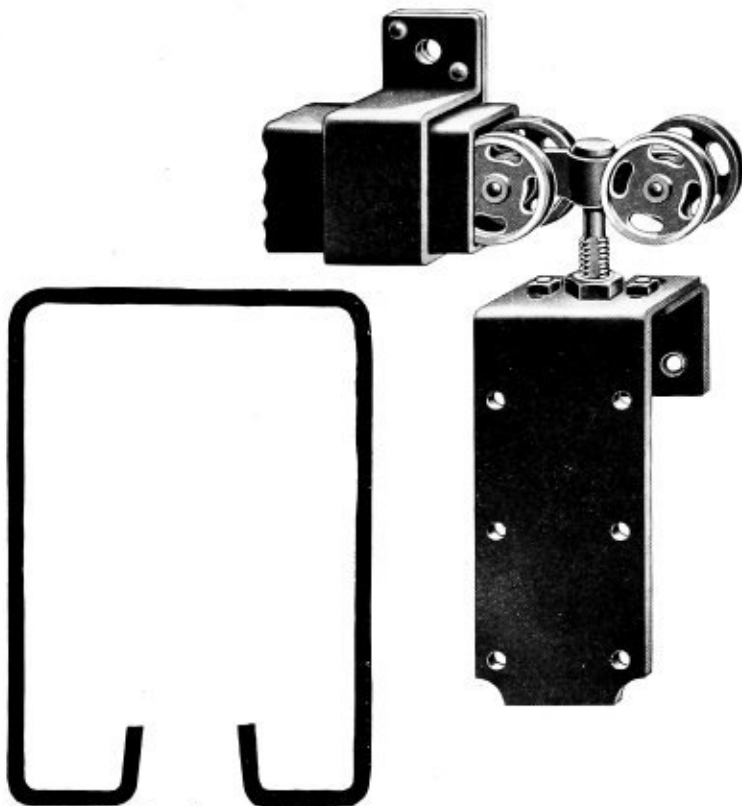
NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.

No. 28½ B R-W Supreme Trolley Ball-Bearing Door Hanger

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 500 POUNDS



FULL SIZE CROSS SECTION OF NO. 32
TROLLEY TRACK

Distance top of
door to bottom
of track:
Minimum,
⅝ inch;
Maximum,
2 inches.

Bottom of track
to center of hole
in bracket,
4¼ inches.

Wheels, grey iron, lathe turned, 2½ inches diameter. Frames, drop forged. Bearings, steel balls. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4 inches wide, ⅜ inch thick, punched for ⅝-inch bolts. No. 1 for doors 1¾ to 2 inches, No. 2 for doors 2¼ to 2¾ inches thick. Packed one pair of hangers with carriage and stove bolts in metal edge box. Weight: hangers, per pair, 13 pounds; track, per foot, 2½ pounds; brackets, each, 1¾ pounds.

PRICE LIST

	BLACK	*GALV.
No. 28½ B-1 or 2 hangers, less brackets, per pair.....	\$4.00	\$4.40
No. 28½ B-1 or 2 knuckle-joint hangers, less brackets (for curved track), per pair....	6.00	6.50
No. 32 track, 4, 6, 8 and 10-foot lengths (6 pieces to bundle), per foot.....	.28	.32
No. 1 x 32 center brackets, less lag screws, each.....	.28	.32
No. 2 x 32 end brackets, less lag screws, each.....	.28	.32

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.

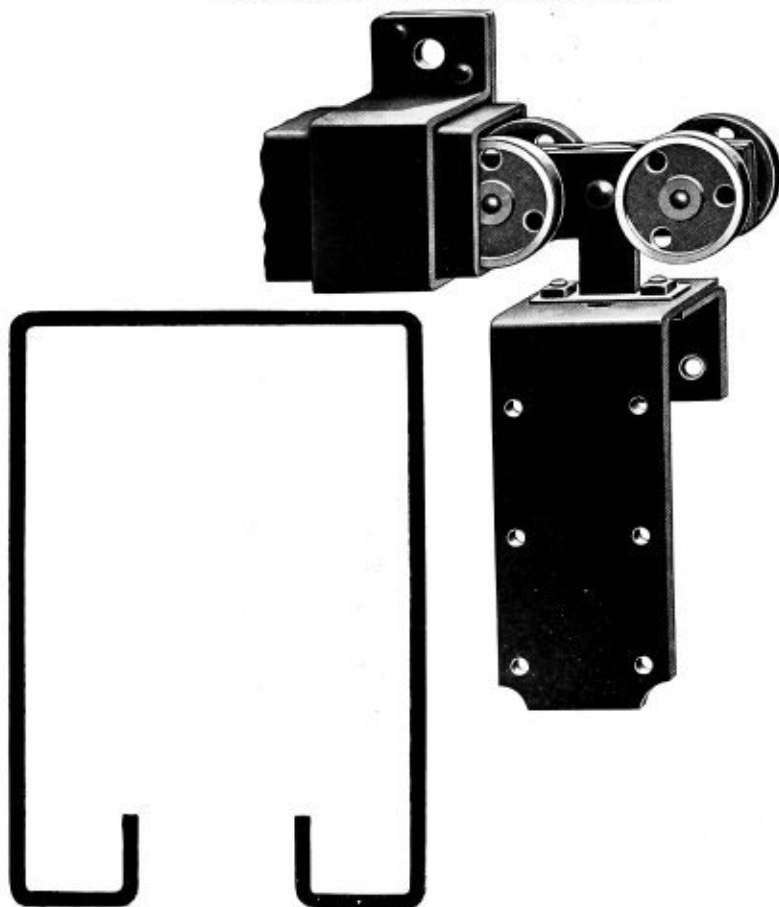


No. 29 L Hercules Trolley Roller-Bearing Door Hanger

(OLD NUMBER R 29-1)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 600 POUNDS



No. 232 Trolley Track, No. 14 GAUGE
FULL SIZE CROSS SECTION

Distance top of
door to bottom of
track, $1\frac{1}{8}$ inches.

Bottom of track
to center of hole
in bracket,
4 11-16 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Apron, 9 inches long, 4 inches wide, $\frac{3}{16}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. No. 1 for doors $1\frac{1}{4}$ to 2 inches, No. 2 for doors $2\frac{1}{4}$ to $2\frac{3}{4}$ inches thick. Packed one pair of hangers with carriage and stove bolts in metal edge box. Weight: hangers, per pair, 16 pounds; track, per foot, 3 pounds; brackets, each, 2 pounds.

PRICE LIST

	BLACK	*GALV.
No. 29 L-1 or 2 hangers, less brackets, per pair.....	\$3.50	\$4.00
No. 232 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.34	.45
No. 1 x 232 center brackets, less lag screws, each.....	.34	.40
No. 2 x 232 end brackets, less lag screws, each.....	.34	.40

*Exposed parts of hangers only are galvanized.

Discount.....

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.

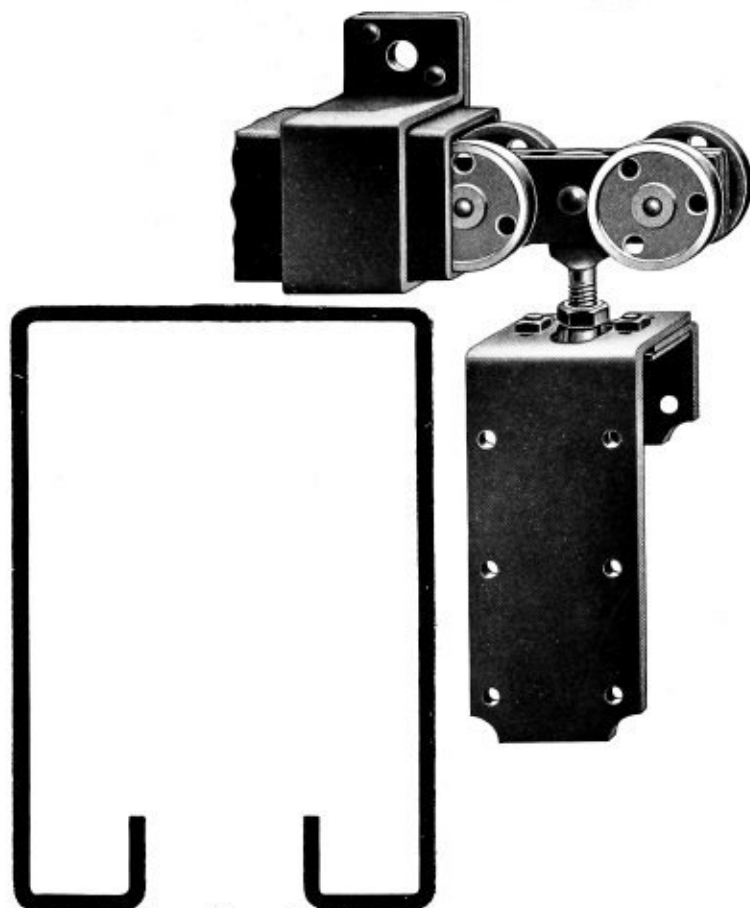


No. 29 V R-W Economy Trolley Roller-Bearing Door Hanger

(OLD NUMBER R 29-2)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 600 POUNDS



No. 232 Trolley Track, No. 14 GAUGE
FULL SIZE CROSS SECTION

Distance top of door to bottom of track:
Minimum, 13 1/4 inches;
Maximum, 33 1/4 inches.

Bottom of track to center of hole in bracket,
4 11-16 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4 inches wide, 3/16 inch thick, punched for 5/16-inch bolts. No. 1 for doors 1 3/4 to 2 inches, No. 2 for doors 2 1/4 to 2 3/4 inches thick. Packed one pair of hangers with carriage and stove bolts in metal edge box. Weight: hangers, per pair, 17 1/2 pounds; track, per foot, 3 pounds; brackets, each, 2 pounds.

PRICE LIST

	BLACK	*GALV.
No. 29 V-1 or 2 hangers, less brackets, per pair.....	\$3.60	\$4.10
No. 232 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.34	.45
No. 1 x 232 center brackets, less lag screws, each.....	.34	.40
No. 2 x 232 end brackets, less lag screws, each.....	.34	.40

*Exposed parts of hangers only are galvanized.

Discount.....

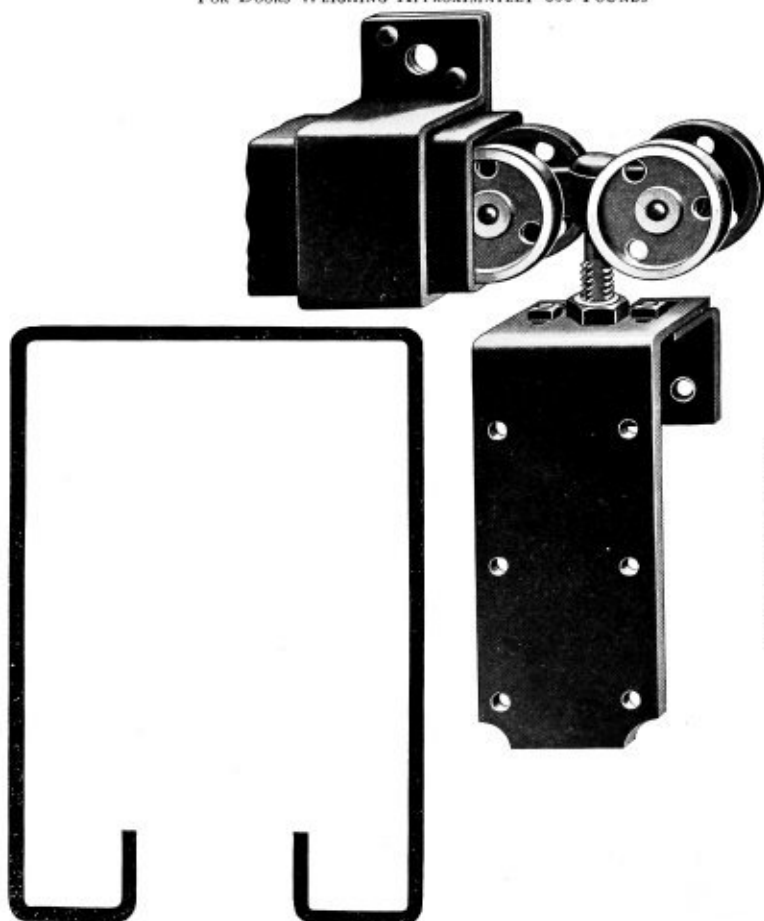
NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.

No. 29½ B

R-W Nofault Trolley Ball-Bearing Door Hanger

MADE IN TWO SIZES
FOR DOORS WEIGHING APPROXIMATELY 600 POUNDS



No. 232 Trolley Track, No. 14 Gauge
FULL SIZE CROSS SECTION

Wheels, grey iron, lathe turned, 3 inches diameter. Frames, drop forged. Bearings, steel balls. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4 inches wide, $\frac{3}{16}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. No. 1 for doors $1\frac{1}{2}$ to 2 inches, No. 2 for doors $2\frac{1}{4}$ to $2\frac{3}{4}$ inches thick. Packed one pair of hangers with carriage and stove bolts in metal edge box. Weight: hangers, per pair, $14\frac{1}{2}$ pounds; track, per foot, 3 pounds; brackets, each, 2 pounds.

PRICE LIST

	BLACK	*GALV.
No. 29½ B-1 or 2 hangers, less brackets, per pair.....	\$4.60	\$5.10
No. 29½ B-1 or 2 knuckle-joint hangers, less brackets (for curved track), per pair....	6.60	7.10
No. 232 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.34	.45
No. 1 x 232 center brackets, less lag screws, each.....	.34	.40
No. 2 x 232 end brackets, less lag screws, each.....	.34	.40

*Exposed parts of hangers only are galvanized.

Discount.....

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

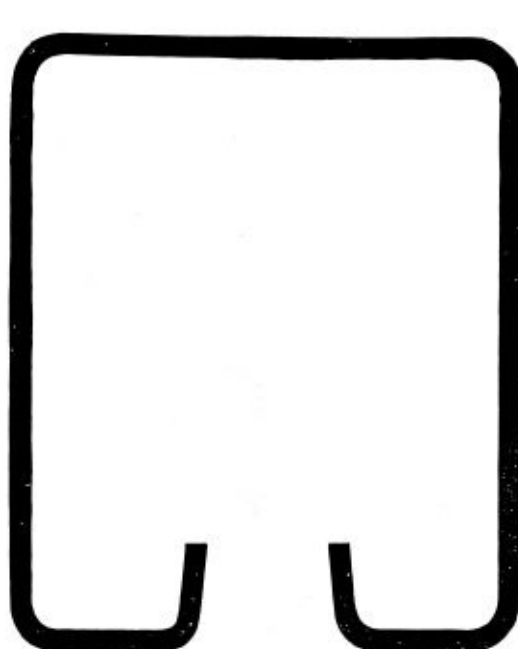
For heavy doors, brackets should be spaced not to exceed 24-inch centers.

No. 120 R-W King Trolley Roller-Bearing Door Hanger

(WILCOX No. 125)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 800 POUNDS



FULL SIZE CROSS SECTION OF NO. 33 TROLLEY TRACK


Distance top of door to bottom of track, 1 $\frac{1}{4}$ inches.

Bottom of track to center of hole in bracket, 5 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Apron, 12 inches long, $4\frac{1}{2}$ inches wide, $\frac{3}{4}$ inch thick, punched for $\frac{3}{8}$ inch bolts. No. 1 for doors 1 $\frac{3}{4}$ to 2 inches, No. 2 for doors 2 $\frac{1}{4}$ to 3 inches thick. Packed one pair of hangers with carriage and stove bolts in wood box. Weight: hangers, per pair, 24 pounds; track, per foot, 4 pounds; brackets, each, 2 $\frac{1}{2}$ pounds.

PRICE LIST

	BLACK	*GALV.
No. 120-1 or 2 hangers, less brackets, per pair.....	\$4.70	\$5.50
No. 33 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.44	.56
No. 1 x 33 center brackets, less lag screws, each.....	.44	.52
No. 2 x 33 end brackets, less lag screws, each.....	.44	.52

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets see pages 50, 51.

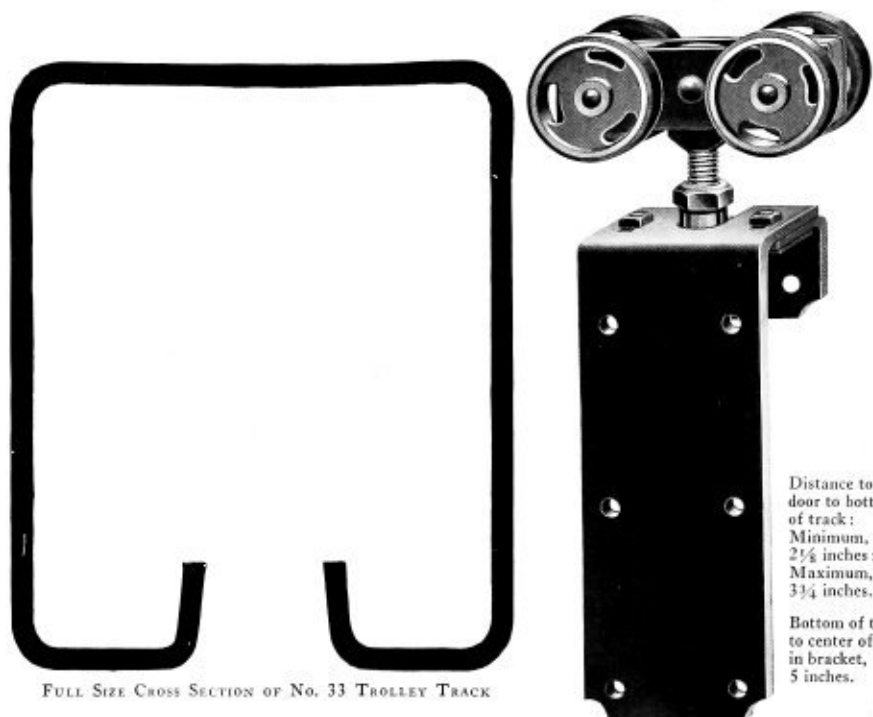
For heavy doors, brackets should be spaced not to exceed 24-inch centers.

No. 121 R-W Samson Trolley Roller-Bearing Door Hanger

(WILCOX No. 125½)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 800 POUNDS



FULL SIZE CROSS SECTION OF NO. 33 TROLLEY TRACK

Distance top of door to bottom of track:
Minimum, 2 1/4 inches;
Maximum, 3 3/4 inches.
Bottom of track to center of hole in bracket, 5 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 12 inches long, 4 1/2 inches wide, 3/4 inch thick, punched for 3/8-inch bolts. No. 1 for doors 1 1/4 to 2 inches, No. 2 for doors 2 1/4 to 3 inches thick. Packed one pair of hangers with carriage and stove bolts in wood box. Weight: hangers, per pair, 25 pounds; track, per foot, 4 pounds; brackets, each 2 1/2 pounds.

PRICE LIST

	BLACK	*GALV.
No. 121-1 or 2 hangers, less brackets, per pair.....	\$5.00	\$5.80
No. 33 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.44	.56
No. 1 x 33 center brackets, less lag screws, each.....	.44	.52
No. 2 x 33 end brackets, less lag screws, each.....	.44	.52

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

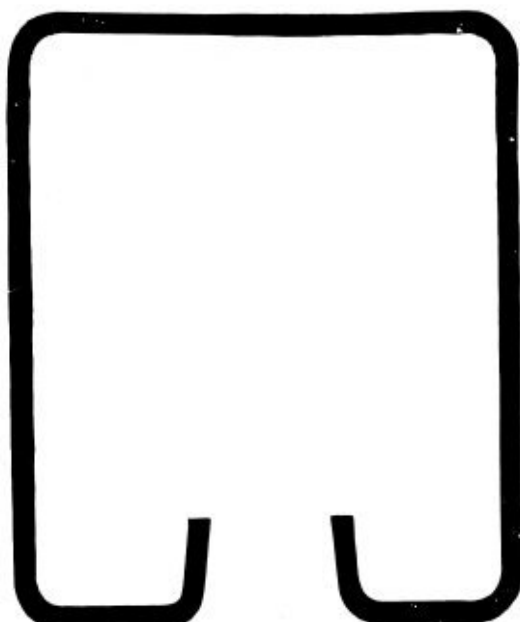
For heavy doors, brackets should be spaced not to exceed 24-inch centers.



No. 123½ B R-W Victor Trolley Ball-Bearing Door Hanger

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 800 POUNDS



FULL SIZE CROSS SECTION OF NO. 33 TROLLEY TRACK



Distance top of door to bottom of track:
Minimum,
1½ inches;
Maximum,
3 inches.

Bottom of track to center of hole in bracket,
5 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Frames, drop forged. Bearings, steel balls. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 12 inches long, 4½ inches wide, ¾ inch thick, punched for ¾-inch bolts. No. 1 for doors 1½ to 2 inches, No. 2 for doors 2½ to 3 inches thick. Packed one pair of hangers with carriage and stove bolts in wood box. Weight: hangers, per pair, 25 pounds; track, per foot, 4 pounds; brackets, each, 2½ pounds.

PRICE LIST

	BLACK	*GALV.
No. 123½ B-1 or 2 hangers, less brackets, per pair.....	\$6.20	\$7.00
No. 123½ B knuckle-joint hangers, less brackets (for curved track), per pair.....	8.20	9.00
No. 33 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.44	.56
No. 1 x 33 center brackets, less lag screws, each.....	.44	.52
No. 2 x 33 end brackets, less lag screws, each.....	.44	.52

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.

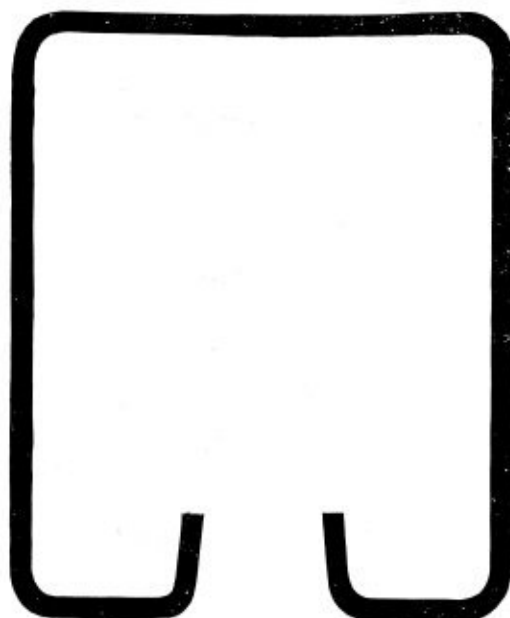


No. 150 R-W Jumbo Trolley Roller-Bearing Wharf and Warehouse Door Hanger

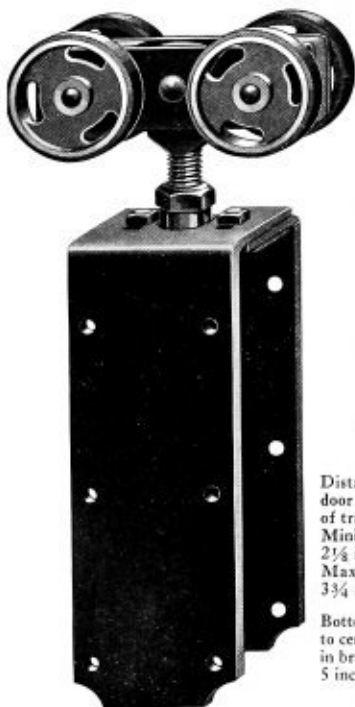
(WILCOX No. 140)

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 1,000 POUNDS



FULL SIZE CROSS SECTION OF NO. 33 TROLLEY TRACK



Distance top of
door to bottom
of track:
Minimum,
2½ inches;
Maximum,
3¾ inches.

Bottom of track
to center of hole
in bracket,
5 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 12 inches long, 4 inches wide, $\frac{3}{8}$ inch thick, punched for $\frac{3}{8}$ -inch bolts. No. 1 for doors 1¾ to 2 inches, No. 2 for doors 2½ to 3½ inches thick. Packed one pair of hangers with stove bolts in wood box. Weight: hangers, per pair, 26 pounds; track, per foot, 4 pounds; brackets, each, 2½ pounds.

PRICE LIST

	BLACK	*GALV.
No. 150-1 or 2 hangers, less brackets, per pair.....	\$5.20	\$6.00
No. 33 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.44	.56
No. 1 x 33 center brackets, less lag screws, each.....	.44	.52
No. 2 x 33 end brackets, less lag screws, each.....	.44	.52

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

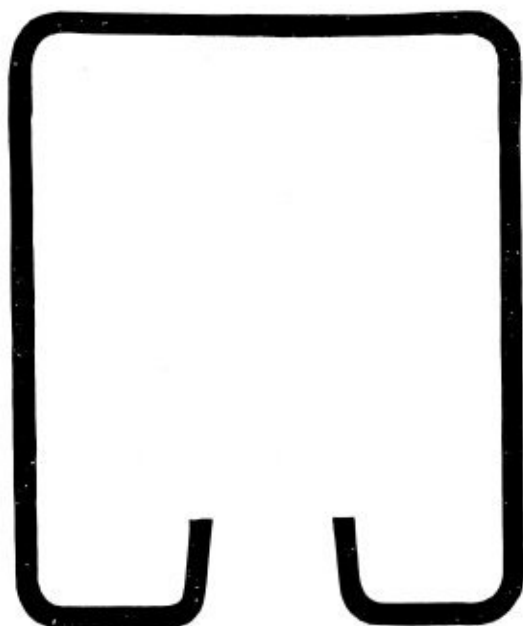
For heavy doors, brackets should be spaced not to exceed 24-inch centers.



No. 150½ B R-W Overall Trolley Ball-Bearing Door Hangers

MADE IN TWO SIZES

FOR DOORS WEIGHING APPROXIMATELY 1,000 POUNDS



FULL SIZE CROSS SECTION OF NO. 33 TROLLEY TRACK



Distance top of door to bottom of track:
Minimum,
1½ inches;
Maximum,
3 inches.
Bottom of track to center of hole in bracket,
5 inches.

Wheels, grey iron, lathe turned, 3 inches diameter. Frames, drop forged. Bearings, steel balls. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 12 inches long, 4 inches wide, $\frac{3}{16}$ inch thick, punched for $\frac{5}{8}$ -inch bolts. No. 1 for doors 1¾ to 2 inches, No. 2 for doors 2¼ to 3½ inches thick. Packed one pair of hangers with stove bolts in wood box. Weight: hangers, per pair, 26 pounds; track, per foot, 4 pounds; brackets, each, 2½ pounds.

PRICE LIST

	BLACK	*GALV.
No. 150½ B-1 or 2 hangers, less brackets, per pair.....	\$6.40	\$7.20
No. 33 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.44	.56
No. 1 x 33 center brackets, less lag screws, each.....	.44	.52
No. 2 x 33 end brackets, less lag screws, each.....	.44	.52

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number. For other types of brackets, see pages 50, 51.

For heavy doors, brackets should be spaced not to exceed 24-inch centers.



No. 155 R-W Roller-Bearing and No. 155½ B R-W Ball-Bearing Double Trolley Swivel Door Hanger

(WILCOX Nos. 155-240)
FOR VERY HEAVY DOORS, 1,000 TO 2,000 POUNDS



Distance top of door to bottom of track: No. 155, minimum, 5½ inches; maximum, 7 inches; No. 155½-B, minimum, 5 inches; maximum, 6¾ inches.

Bottom of track to center of hole in bracket on either, 5 inches.

Track, No. 13 gauge steel, No. 33 type. Wheels, grey iron, lathe turned, 3 inches diameter. Frames, No. 155, malleable iron; No. 155½ B, drop forged. Bearings, No. 155, steel rollers; No. 155½ B, steel balls. Finish, black enamel or galvanized. Adjustment, lateral and vertical. Apron, 9 inches long, 4½ inches wide, ¼ inch thick, punched for ⅜-inch bolts. For doors 2¼ to 3½ inches thick. Packed in bulk. Weight: hangers, per pair, 42 pounds; track, per foot, 4 pounds.

PRICE LIST

	BLACK	*GALV.
No. 155 hangers, roller-bearing, less brackets and bolts, per pair.....	\$ 8.00	\$ 9.00
No. 155½ B hangers, ball-bearing, less brackets and bolts, per pair.....	11.00	12.00
No. 33 track, 4, 6, 8 and 10-foot lengths (4 pieces to bundle), per foot.....	.44	.52
Brackets to suit requirements. For prices, etc., see pages 50, 51.		

*Exposed parts of hangers only are galvanized.

NOTE—Always specify brackets by number.

For heavy doors, brackets should be spaced not to exceed 18-inch centers.

Discount.....

R-W Trolley Trucks

ROLLER-BEARING, BALL-BEARING AND KNUCKLE-JOINT FOR NOS. 31, 32, 33
AND 232 TROLLEY TRACKS



BALL-BEARING
REGULAR



ROLLER-BEARING
REGULAR



BALL-BEARING
KNUCKLE-JOINT

PRICE LIST—FOR No. 31 TRACK

		KNUCKLE- REGULAR	JOINT
No. 25 trucks only, roller-bearing, (as illustrated), per pair.....	\$1.80	.....	.....
No. 27½ B trucks only, ball-bearing, (as illustrated), per pair.....	2.60	.....	\$4.10
Description of No. 25 and No. 27½ B on pages 61, 62.			

FOR No. 32 TRACK

No. 28 V trucks only, roller-bearing, (as illustrated), per pair.....	\$2.40	.....	.....
No. 28½ B trucks only, ball-bearing, (as illustrated), per pair.....	3.20	.....	\$4.40
Description of No. 28 V and No. 28½ B on pages 72, 73.			

FOR No. 33 TRACK

No. 121 trucks only, roller-bearing, (as illustrated), per pair.....	\$3.80	.....	.....
No. 123½ B trucks only, ball-bearing, (as illustrated), per pair.....	5.00	.....	\$7.00
Description of No. 121 and No. 123½ B on pages 78, 79.			

FOR No. 232 TRACK

No. 29 V trucks only, roller-bearing, (as illustrated), per pair.....	\$3.20	.....	.....
No. 29½ B trucks only, ball-bearing, (as illustrated), per pair.....	4.00	.....	\$6.00
Description of No. 29 V and No. 29½ B on pages 75, 76.			

Discount.....

NOTE—Always specify by number trucks desired. Regular type sent unless otherwise specified.
Distance end of pendant to bottom of track: No. 25, 2¾ inches; No. 27½ B, 3 inches; No. 28 V,
2¾ inches; No. 28½ B, 2⅝ inches; No. 29 V, 4 inches; No. 29½ B, 2⅝ inches; No. 121, 4 inches;
No. 123½ B, 3⅝ inches.

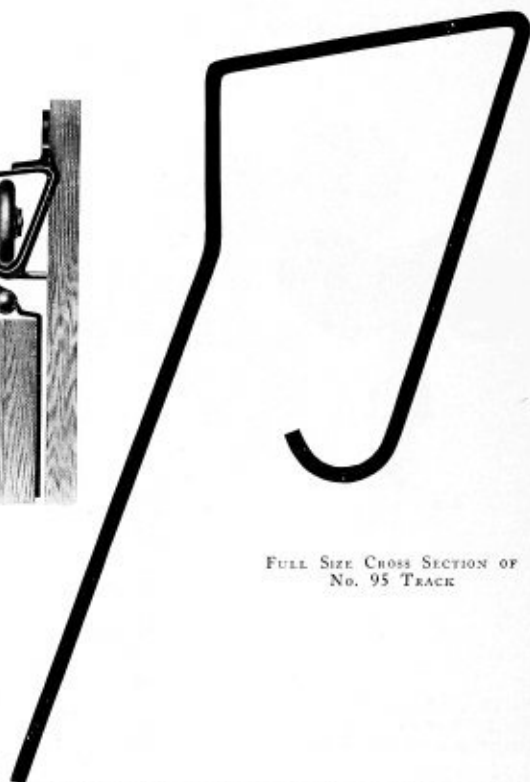
No. 99 R-W Watrtite Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS

DISTANCE FROM TOP OF DOOR TO CENTER OF HOLE IN BRACKET, 5 INCHES



PATENTED



FULL SIZE CROSS SECTION OF
No. 95 TRACK

Track, No. 14 gauge steel, No. 95 type, furnished in 4, 6, 8 and 10-foot lengths. Track fits tight against the building (see sectional view of hanger). The outside of track extends below top of door, making same weather and bird-proof. Top of track is inclined away from building, allowing it to shed water.

Hanger, wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Flexible joint. Apron, hinged, 5 inches long, $2\frac{1}{4}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts, three brackets with $\frac{7}{16} \times 2\frac{1}{2}$ -inch lag screws, joint cap and 2 track stops in metal edge box. Weight: hangers, per pair, $7\frac{1}{2}$ pounds; track, per foot, $2\frac{1}{4}$ pounds; brackets, each, $\frac{1}{2}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 99 hangers, with 3 brackets, per pair.....	\$2.30	\$2.60
No. 99 hangers only, per pair.....	1.85	2.05
No. 95 track, with joint caps, per foot.....	.19	.22
Extra, No. 1 x 95 brackets, with lag screws, each.....	.16	.19

Discount.....

*Exposed parts of hangers only are galvanized.

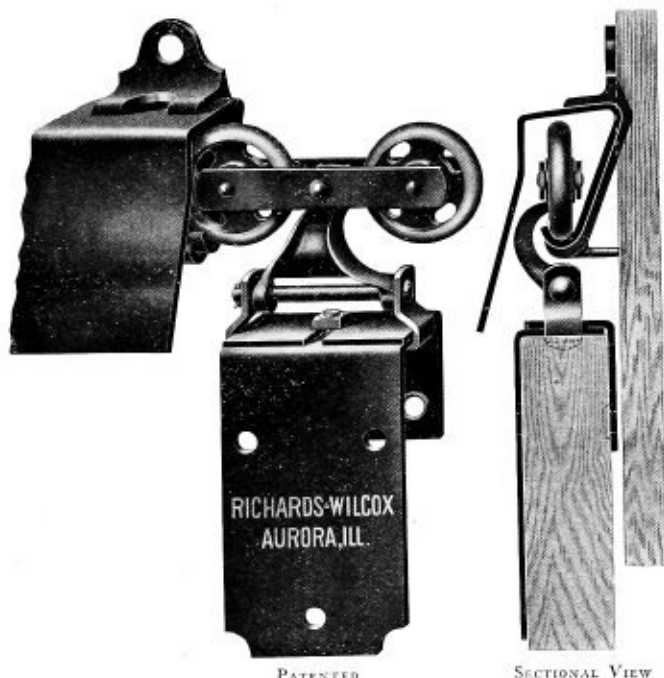
NOTE—Specify on order if extra brackets are desired.

Brackets should be spaced not to exceed 30-inch centers.

No. 199 R-W Richcox Trolley Roller-Bearing Door Hanger

FOR DOORS WEIGHING APPROXIMATELY 300 POUNDS

DISTANCE FROM TOP OF DOOR TO CENTER OF HOLE IN BRACKET, 5 INCHES



PATENTED

SECTIONAL VIEW

FOR DESCRIPTION OF TRACK, SEE OPPOSITE PAGE

Hanger, wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Flexible joint. Apron, hinged, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{1}{2}$ to 2 inches thick. Packed one pair of hangers with carriage and stove bolts, three brackets with $\frac{7}{16} \times 2\frac{1}{2}$ -inch lag screws, joint cap and 2 track stops in metal edge box. Weight: hangers, per pair, $9\frac{1}{2}$ pounds; track, per foot, $2\frac{1}{4}$ pounds; brackets, each, $\frac{1}{2}$ pound.

PRICE LIST

	BLACK	*GALV.
No. 199 hangers, with 3 brackets, per pair.....	\$2.30	\$2.60
No. 199 hangers only, per pair.....	1.85	2.05
No. 95 track, with joint caps, per foot.....	.19	.22
Extra, No. 1 x 95 brackets, with lag screws, each.....	.16	.19

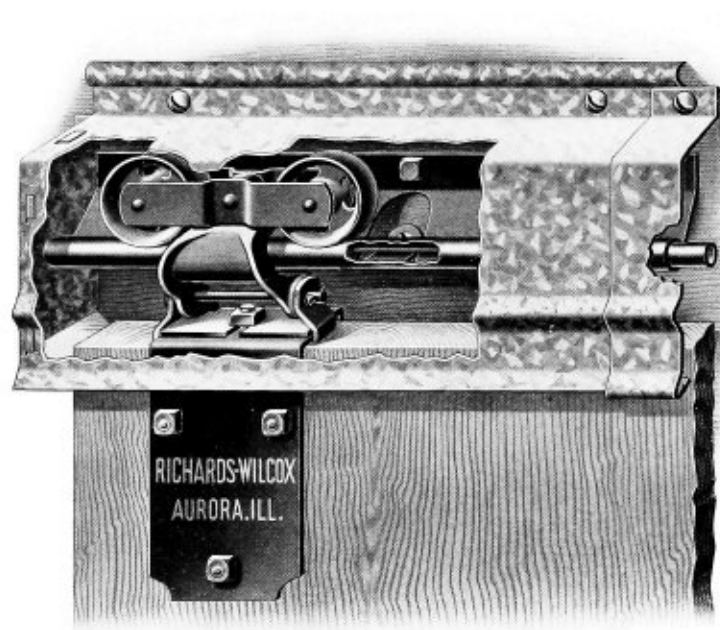
Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Specify on order if extra brackets are desired.

Brackets should be spaced not to exceed 30-inch centers.

No. 299 R-W Ridge-Way Trolley Roller-Bearing Door Hanger



PATENT PENDING



CROSS SECTION OF TRACK
AND HOUSING

Track, No. 14 gauge steel, No. 295 type, furnished in 4, 6, 8 and 10-foot lengths. Track attaches directly to side of building, no brackets required. Finish, black enamel or galvanized. Coupling furnished for each track joint.

Housing, No. 20 gauge steel, No. 296 type, completely covers track and extends below top of door, making same weather and bird-proof. Top of housing is inclined away from building, allowing it to shed water. Finish, galvanized only. Cap furnished for each joint.

Hanger, wheels, grey iron, lathe turned, 2 $\frac{1}{8}$ -inch diameter. Bearings, steel rollers. Finish, black enamel or galvanized. Adjustment, lateral only. Flexible joint. Apron, 6 inches long, 3 $\frac{1}{2}$ inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors 1 $\frac{3}{4}$ to 2 $\frac{1}{2}$ inches thick. Packed one pair of hangers with carriage and stove bolts, screws for track, track coupling, joint cap, one right and one left blind for housing in metal edge box. Weight: hangers, per pair, 8 pounds; track, per foot, 1 pound; housing, per foot, 1 pound.

PRICE LIST

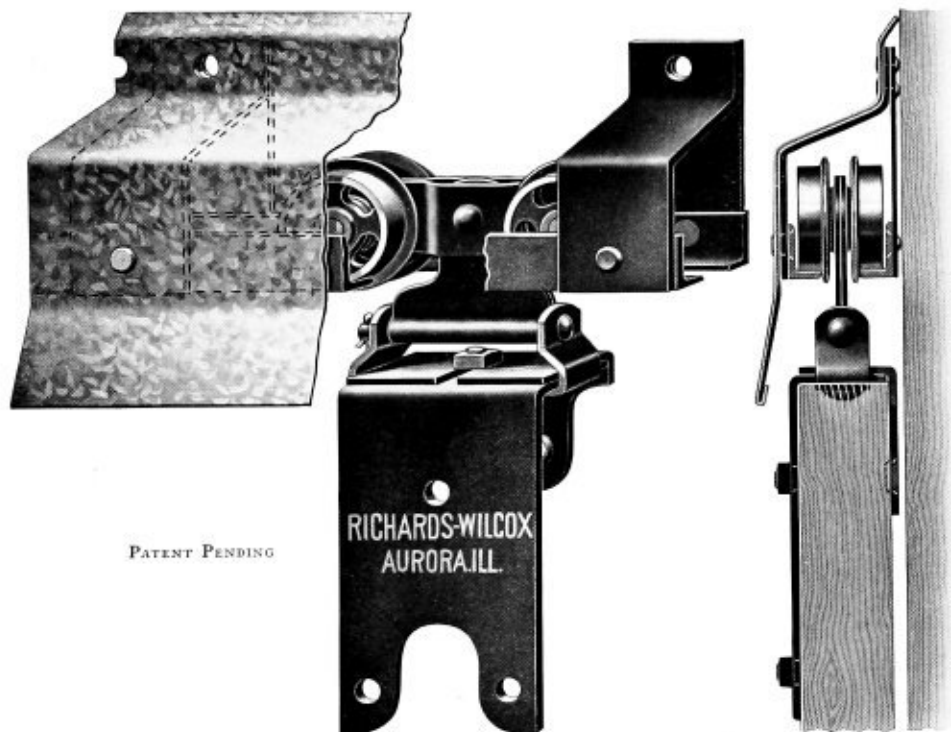
	BLACK	*GALV.
No. 299 hangers, per pair.....	\$2.00	\$2.30
No. 295 track, per foot.....	.12	.14
No. 296 housing, per foot.....		.12

Discount.....

*Exposed parts of hangers only are galvanized.

NOTE—Top of door to bolt hole in track, 3 $\frac{1}{2}$ inches. Top of door to top of shield, 6 inches.

No. 399 R-W King Bee Trolley Roller-Bearing Door Hanger



Track, No. 395 type, furnished in 4, 6, 8, 10 and 12-foot lengths in one piece. Attached directly to side of building, no loose brackets required.

Track proper or run-way is two steel angles supported by brackets on 2-foot centers; housing galvanized steel riveted to track proper and completely covers same. Also extends below top of door, making same weather and bird-proof. Top of housing is inclined away from building, allowing it to shed water. Cap furnished for each joint.

Hangers, wheels, grey iron, lathe turned, $2\frac{1}{4}$ inches diameter. Bearings, steel rollers. Finish, galvanized. Adjustment, lateral only. Flexible joint. Apron, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{1}{2}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ to $2\frac{1}{2}$ inches thick. Packed one pair of hangers with carriage and stove bolts, screws for track, joint cap, one right and one left blind for housing in metal edge box. Weights: hangers, per pair, 7 pounds; track, per foot, including housing, $2\frac{3}{4}$ pounds.

PRICE LIST

No. 399 hangers, per pair.....	\$2.00
No. 395 track, including housing and screws for attaching, per foot.....	.24

Discount.....

NOTE—Top of door to bolt hole in track, $5\frac{1}{2}$ inches. Top of door to top of shield, $6\frac{1}{2}$ inches.

No. 278 R-W Double Sliding Gable Door Fixture

Fixture designed especially to meet the demand for easy operating gable doors.

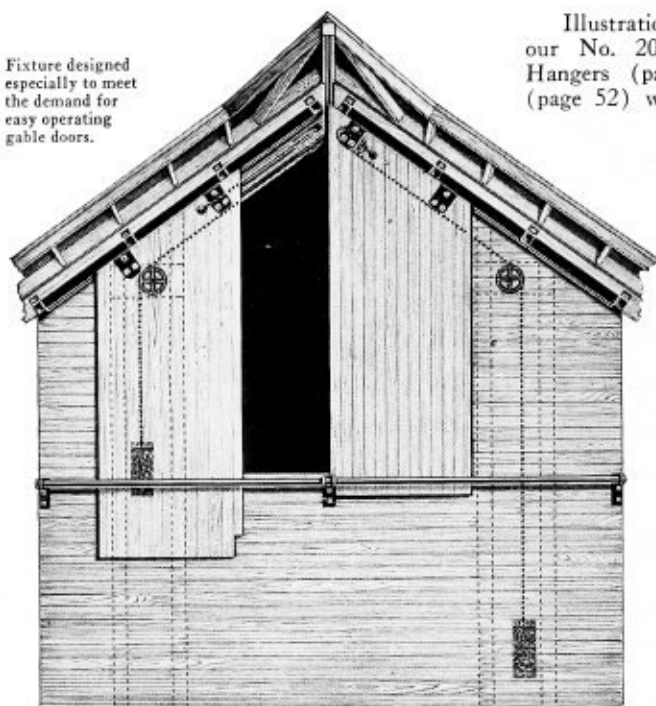


Illustration shows the manner in which our No. 20 Gem Roller-Bearing Trolley Hangers (page 56), using No. 31 track (page 52) with No. 1 x 31 and No. 2 x 31 brackets (pages 50 and 51), operates double sliding doors in the gable of barns used for hay lofts, etc.

Track is mounted parallel with roof and the hangers are attached in the same manner as on any barn door. Each door is counterbalanced by weights attached to a steel cable, which passes over two cable pulleys located above each door. Doors can be lowered or raised easily, permitting the use of the entire or part of the opening as desired.

Steel guide holds bottom of doors against building when closed and also acts as guide and stop when open.

Counterbalance weights can be made of any convenient material. We recommend concrete weights as these can always be made on the job. Concrete weighs 137 pounds to the cubic foot. Where 2 x 6-inch studding is used, weights should be 8 inches wide, 5 inches thick and height according to weight of door.

concrete weighs 137 pounds to the cubic foot. Where 2 x 6-inch studding is used, weights should be 8 inches wide, 5 inches thick and height according to weight of door.

PRICE LIST

No. 278 fixtures only, less hangers, track and track brackets, per set.....\$6.15

PARTS REQUIRED FOR OPENINGS OF FOLLOWING WIDTHS

5 Foot	6 Foot	7 Foot	8 Foot	9 Foot	10 Foot
2 Pr.	2 Pr.	2 Pr.	2 Pr.	2 Pr.	2 Pr.
12 Ft.	14 Ft.	16 Ft.	18 Ft.	20 Ft.	22 Ft.
2	4	4	4	6	6
4	4	4	4	4	4
4	4	4	4	4	4
11 Ft.	13 Ft.	15 Ft.	17 Ft.	19 Ft.	21 Ft.
25 Ft.	28 Ft.	31 Ft.	34 Ft.	37 Ft.	40 Ft.
1	1	1	1	1	1
2	2	2	2	2	2

COMPLETE PER SET (LESS WEIGHTS)

\$11.80	\$12.75	\$13.25	\$13.85	\$14.75	\$15.50
---------	---------	---------	---------	---------	---------

PRICE LIST OF PARTS

Description	Price
No. 20 hangers only, with bolts, per pair	\$1.85
No. 31 track, per foot	.19
No. 1x31 center bracket, with lag screw, each	.16
No. 2x31 end bracket, with lag screw, each	.16
No. 278-A cable pulley, 4 in. diam., with screws, each	.30
No. 278-B round steel guide, per foot	.10
No. 278-CA steel cable, per foot	.06
No. 278-D center bracket, with screws (for guide), each	.25
No. 278-E end bracket, with screws (for guide) each	.25

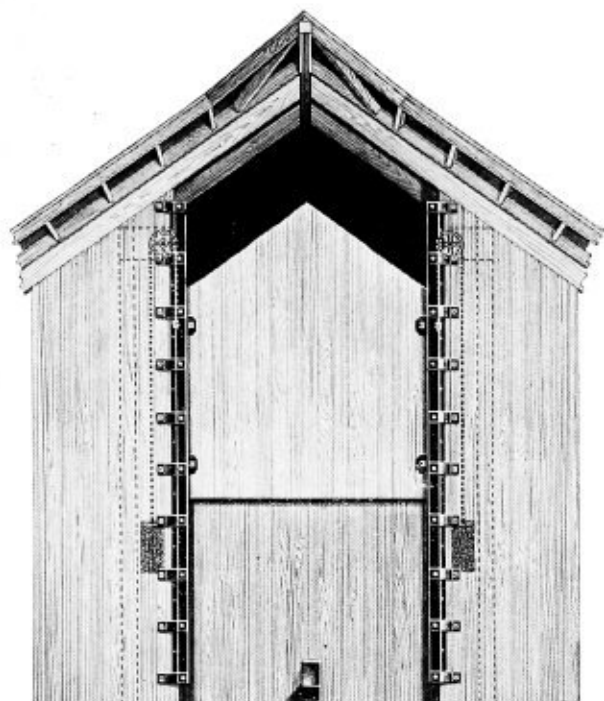
Discount.....

NOTE—Unless otherwise specified, fixtures complete will be sent. Always specify by number and state size of opening.

Prices on galvanized fixtures quoted on application.

Brackets should be spaced not to exceed 30-inch centers.

No. 279 R-W Vertical Sliding Gable Door Fixture



This fixture designed to meet the demand for a cheaper outfit than illustrated on opposite page and is only used with vertical sliding door as shown above.

The guides operate in a steel track with brackets attached on 24-inch centers. This track completely covers the guides and protects them from the weather. To determine length of track, add the height of door at side to the height at center. Track is made in 6, 8 and 10-foot lengths.

Door is counterbalanced by weights attached to a steel cable which passes over two cable pulleys, located above door. Door can be lowered or raised easily, permitting the use of the entire or part of the opening as desired.

Counterbalance weights can be made of any convenient material. We recommend concrete weights, as they can always be made on the job. Concrete weighs 137 pounds to the cubic foot. Where 2 x 6-inch studding is used, weights should be 8 inches wide, 5 inches thick and height according to weight of door.

PRICE LIST

No. 279 fixtures only, less track, per set.....	\$5.60
No. 278-CA steel cable (40 feet per set), per foot.....	.06
No. 279-TK track (with brackets attached) with screws (2 runs according to height of door), per foot.....	.20
No. 279-A cable pulley, 8 inches diameter, with bolts (2 per set), each.....	1.00
No. 279-B guides with bolts (4 per set), each.....	.30

Discount.....

NOTE—Unless otherwise specified, fixtures complete will be sent. Always specify by number and state height of door at side and also at center.

Prices on galvanized fixtures quoted on application.

Floor Plans Showing Arrangement of Sliding Garage Doors

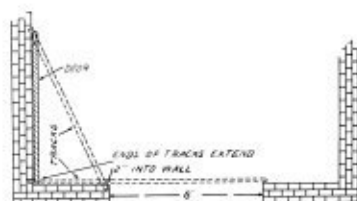


FIG. 1—SINGLE RIGHT ANGLE SLIDING DOOR

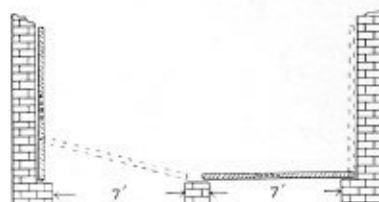


FIG. 2—DOUBLE RIGHT ANGLE SLIDING DOORS

ABOVE TWO PLANS REQUIRE NO. 235 HANGERS ILLUSTRATED AND DESCRIBED ON OPPOSITE PAGE



FIG. 3—DOUBLE SLIDING DOORS



FIG. 6—PARALLEL SLIDING DOORS



FIG. 4—PARALLEL SLIDING DOORS

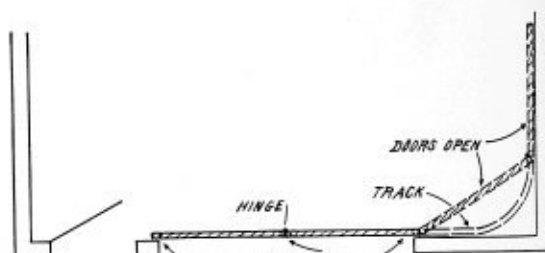


FIG. 7—HINGED SLIDING DOORS

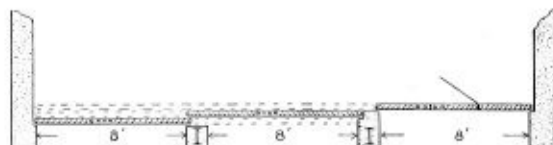


FIG. 5—PARALLEL SLIDING DOORS
NOTE—Wicket door shown on right end door

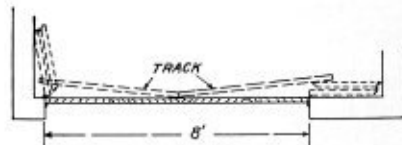


FIG. 8—SLIDING FOLDING DOORS

Plan in Fig. 3 is a single track outfit. Fig. 4, 5 and 6 require parallel track as illustrated and described on pages 94, 95. Fig. 7 requires curved track and the No. 235-1, 2, 5 and 6 Knuckle-Jointed Hangers. Fig. 8 requires hangers and track illustrated and described on page 92.

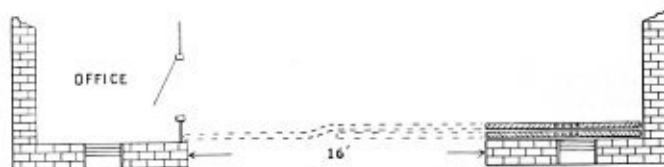


FIG. 9—PARALLEL SLIDING DOORS, REQUIRING FOR ONE DOOR
KNUCKLE-JOINT HANGERS AND COMPOUND CURVE

Fig. 9 requires compound curve and parallel track as illustrated and described on page 94.
NOTE—Always send sketch showing floor plan, when ordering.

No. 235 R-W Trolley Right Angle Door Hangers

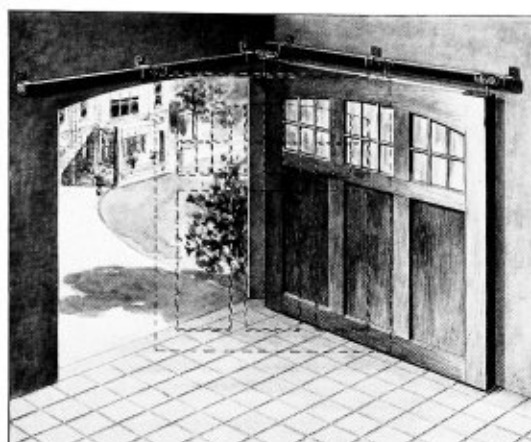
MADE IN TWO SIZES AND FIVE STYLES



Four-Wheel Hanger
Short Pendant
No. 235-1
No. 235-2



Four-Wheel Hanger
Long Pendant
No. 235-11
No. 235-12



Two-Wheel Hanger
No. 235-3
No. 235-4



This hanger used
over center of
hinged doors as
shown on Fig. 7
Four-Wheel Hanger
No. 235-5
No. 235-6

Designed to use where, for lack of room, right angle doors are necessary. As shown above, track on side wall is set over track above the opening. This requires that the outer end hanger have an extra long pendant. Track over opening must be slotted part way through at point where pendant of rear hanger on door comes, when door is in closed position. Blue print showing erection details furnished with each order.

For use on double doors, specify for each door, one four-wheel hanger for outer end and one two-wheel hanger for inner end (where doors meet at center of opening).

For doors $1\frac{3}{4}$ to 2 inches thick use No. 31 trolley track; doors $2\frac{1}{4}$ to 3 inches thick, use No. 33 trolley track.

Hanger wheels are grey iron, lathe turned. Vertical adjustment. Ball-bearing swivel pendant.

PRICE LIST

Hanger No.	For Track No.	Diameter Wheel Inches	Bearings In Hanger	Pendant	Top of Door to Bottom of Front Track		Clearance required above Bottom of Front Track		Weight Each Pounds	Price List	
					Minimum Inches	Maximum Inches	Side Wall Bracket Inches	Ceiling Bracket Inches		Regular Each	Knuckle Joint Each
235-1	31	2 $\frac{1}{2}$	Roller	Short	1	1 $\frac{1}{2}$	7	6	3	\$2.50	\$3.50
235-11	31	2 $\frac{1}{2}$	Roller	Long	1	1 $\frac{1}{2}$	7	6	3 $\frac{1}{2}$	2.50	...
235-2	33	3	Roller	Short	1 $\frac{1}{2}$	2 $\frac{1}{2}$	9 $\frac{1}{2}$	8 $\frac{1}{2}$	6	4.00	5.00
235-12	33	3	Roller	Long	1	1 $\frac{1}{2}$	9 $\frac{1}{2}$	8 $\frac{1}{2}$	6 $\frac{1}{2}$	4.00	...
235-3	31	2 $\frac{1}{2}$	Ball	Short	1	1 $\frac{1}{2}$	7	6	2	2.50	...
235-4	33	3	Roller	Short	1 $\frac{1}{2}$	2 $\frac{1}{2}$	9 $\frac{1}{2}$	8 $\frac{1}{2}$	3 $\frac{1}{2}$	4.00	...
235-5	31	2 $\frac{1}{2}$	Ball	Short	1	1 $\frac{1}{2}$	4 $\frac{1}{2}$	3 $\frac{1}{2}$	3	...	3.50
235-6	33	3	Ball	Short	1 $\frac{1}{2}$	2 $\frac{1}{2}$	6	4 $\frac{1}{2}$	6	...	5.00

Discount.....

NOTE—Tracks and brackets illustrated, described, and priced on pages 50, 51 and 52; door bolt, see page 100; stops and guides, see page 99.

Knuckle-jointed hangers are used with doors illustrated in Fig. 7 and 9.

Directions for Ordering—State following: *First*—Size of opening. *Second*—Distance between jamb and side wall (Fig. 7 requires 24 inches for curve). *Third*—Are doors single or double. *Fourth*—If double, do they slide right and left (as Fig. 2) or both one way (as Fig. 7). *Fifth*—Distance door laps on jamb. *Sixth*—Always send sketch of floor plan with above dimensions inserted.

NOTE—Always specify by number the hangers, track and brackets desired.

Brackets should be spaced not to exceed 30-inch centers.

No. 435

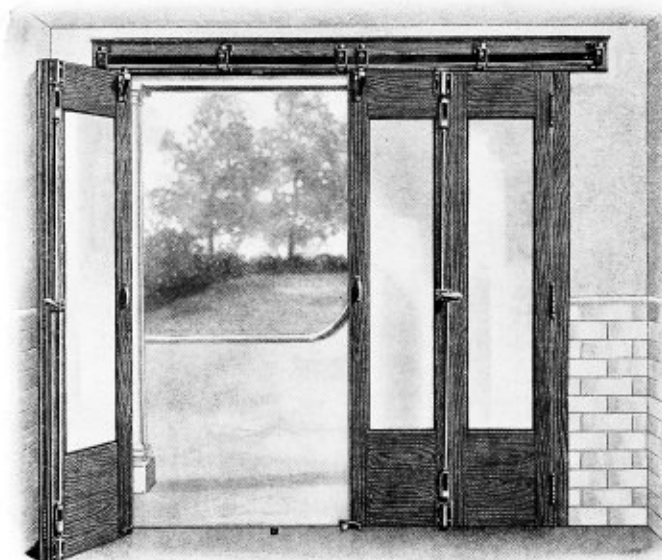
R-W Sliding Folding Garage Door Roller-Bearing Hanger

Meets the demand for a fixture that will allow hinge doors to fold and swing inside of building requiring only minimum space. Not recommended for doors over 3 feet in width.

Four doors hinged together in pairs are required for each opening, one pair folding to each side. Will stand at any angle or parallel with front walls, depending, however, upon the width of wall space adjoining the opening (see floor-plan, page 90). Blue print showing erection details furnished with each order.

Intermediate and end brackets are adjustable and are made in two sizes: No. 1 for doors 1½ to 2¼ inches thick, No. 2 for doors 2½ to 3 inches thick. Center brackets are swivelled to permit track to be set at angle suitable to thickness of doors. Hangers support and guide the end of the doors. Wheels are grey iron, lathe turned. Vertical adjustment. Ball-bearing swivel pendants.

No. 517 top and bottom bolts are required to lock the doors in place (see illustration above, description and price on opposite page); No. 271 floor guides are required in the center of opening, and two No. 301-72 bumper shoes are attached to lower corner of first door to prevent chafing by guide.



PRICE LIST

No. 435 hanger, each.....	\$3.50
No. 435-C center bracket, each.....	.30
No. 435-E end bracket, No. 1 or No. 2 size, each.....	1.00
No. 435-I intermediate bracket, No. 1 or No. 2 size, each.....	.70
No. 31, 16 gauge track, (Page 52), per foot.....	.19
No. 271 adjustable floor center door guide (Page 99), each.....	.80
No. 301-72 steel bumper shoes, each.....	.10

Discount.....

Directions for Ordering—State width and height of opening, also thickness of doors.

NOTE—Always specify by number. Unless otherwise specified, fixtures complete with top and bottom bolt will be sent. *We do not furnish the hinges that are required.*

DETAIL OF PARTS



No. 435
HANGER



No. 435-C CENTER
BRACKET



No. 435-E END BRACKET



No. 435-I INTER-
MEDIATE BRACKET



No. 271 FLOOR GUIDE
WITH NO. 301-72
BUMPER SHOE

No. 517

R-W Top and Bottom Bolt for Garage Doors

MADE IN THREE SIZES

Locks doors at both top and bottom with one movement of lever handle.

So constructed that when bolted or unbolted the ends of connecting rods, where attached to the lever handle are off center so that bolt maintains its position by gravity and cannot be changed except by moving the lever handle.

Made in three sizes and adjustable for doors of various heights. No. 1 for doors from 7 to 8 feet high, No. 2 for doors 8 to 9 feet high, No. 3 for doors 9 to 10 feet high. Furnished for other height doors if required. Adjustment is positive and is securely locked. Suitable for use on inside of building.

Packed regularly with screws, sill and lintel plates for hinged doors swinging out. Finish, black enamel. Weight: No. 517-1, 10 pounds; No. 517-2, 10½ pounds; No. 517-3, 11½ pounds.

Special adjustable top keepers shown in Figs. 1 to 5 furnished when required, suitable for the following installations.

Fig. 1—Hinged flush door swinging in and also is used with No. 435 fixtures.

Fig. 2—1½-inch to 1¾-inch lap hinged doors swinging in; for right angle door using No. 31 track or sliding doors using Nos. 31, 32 or 232 track.

Fig. 3—2-inch to 2¼-inch lap hinged doors swinging in; right angle or sliding doors, any track.

Fig. 4—2½-inch to 2¾-inch lap hinged doors swinging in; right angle or sliding doors using Nos. 31, 32 or 232 track.

Fig. 5—3-inch to 3¼-inch lap hinged doors swinging in; right angle or sliding doors using any track.

NOTE—Extra charge is made for keepers shown in Figs. 2, 3, 4 and 5.

PRICE LIST

No. 517-1 top and bottom bolt (for doors 7 to 8 feet high), each.....	\$5.00
No. 517-1 top and bottom bolt, with special keepers, Fig. 2, 3, 4 and 5.....	5.50
No. 517-2 top and bottom bolt (for doors 8 feet 1 inch to 9 feet high), each.....	5.50
No. 517-2 top and bottom bolt, with special keepers, Fig. 2, 3, 4 and 5.....	6.00
No. 517-3 top and bottom bolt (for doors 9 feet 1 inch to 10 feet high), each.....	6.00
No. 517-3 top and bottom bolt, with special keepers, Figs. 2, 3, 4 and 5.....	6.50

Discount.....

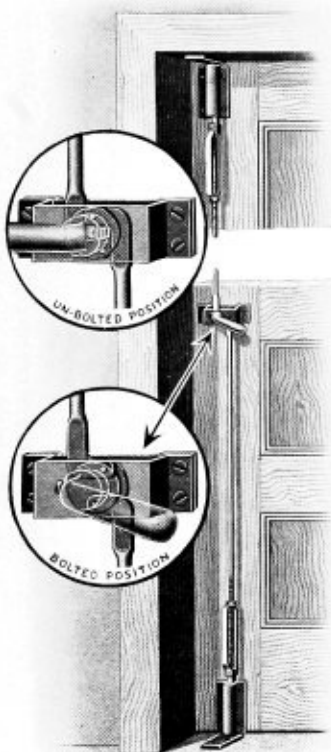


FIG. 1

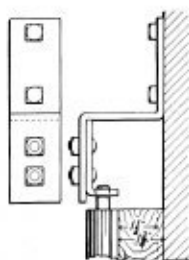


FIG. 2

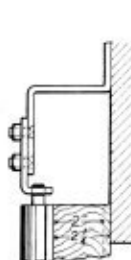


FIG. 3

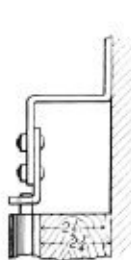


FIG. 4

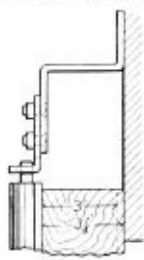


FIG. 5

Directions for Ordering—State the following: *First*—State height of door. *Second*—If sliding or swing door. *Third*—If swing door, does same overlap jamb or set in flush. *Fourth*—If doors swing in or out.

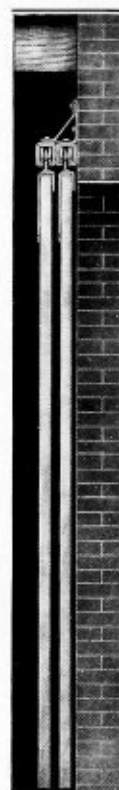


PARALLEL TRACK WITH DOUBLE SIDE BRACKETS

R-W Parallel Door Equipment

FOR GARAGES,
STABLES AND
LUMBER SHEDS

Illustration shows the application of R-W Ball-Bearing Garage Door Hangers to parallel sliding doors. Double side brackets are bolted through wall or secured with expansion bolts. Where triple brackets are used for three parallel doors, ceiling brackets are preferable. We can make special brackets, extension rods, etc., to suit your requirements. For head room required above top of door, see bracket dimensions on pages 53, 54, 55. On heavy doors, brackets should be spaced not to exceed 24-inch centers.



END VIEW

WHAT TO SPECIFY AND PRICE LIST

Hanger No.	Description on Page	For Track No.	For Doors Weighing Pounds	Thickness of Doors Inches	List Price	
					Regular, Per Pair	Knuckle Joint Per Pair
20½ B	57	31	300	1½ to 2½	\$2.25	
27½ B-1	62	31	400	1½ to 2	3.25	\$4.70
27½ B-2	62	31	400	2½ to 2¾	3.25	4.70
28½ B-1	73	32	500	1½ to 2	4.00	6.00
28½ B-2	73	32	500	2½ to 2¾	4.00	6.00
29½ B-1	76	232	600	1½ to 2	4.60	6.60
29½ B-2	76	232	600	2½ to 3	4.60	6.60
123½ B-1	79	33	700	1½ to 2	6.20	8.20
123½ B-2	79	33	700	2½ to 3	6.20	8.20

TRACK

	BLACK STRAIGHT	BLACK CURVED
No. 31 track, 16 gauge, per foot.....	\$.19	\$1.20
No. 32 track, 14 gauge, per foot.....	.28	1.60
No. 33 track, 13 gauge, per foot.....	.44	2.00
No. 232 track, 14 gauge, per foot.....	.34	1.80
For full size cross sections, see page 52.		
No. 172 adjustable parallel door floor guide (Page 99), each.....		\$1.00
Brackets furnished to suit requirements. For prices, etc., see pages 50, 51.		

NOTE—Always send sketch showing floor plan, when ordering.

Discount.....

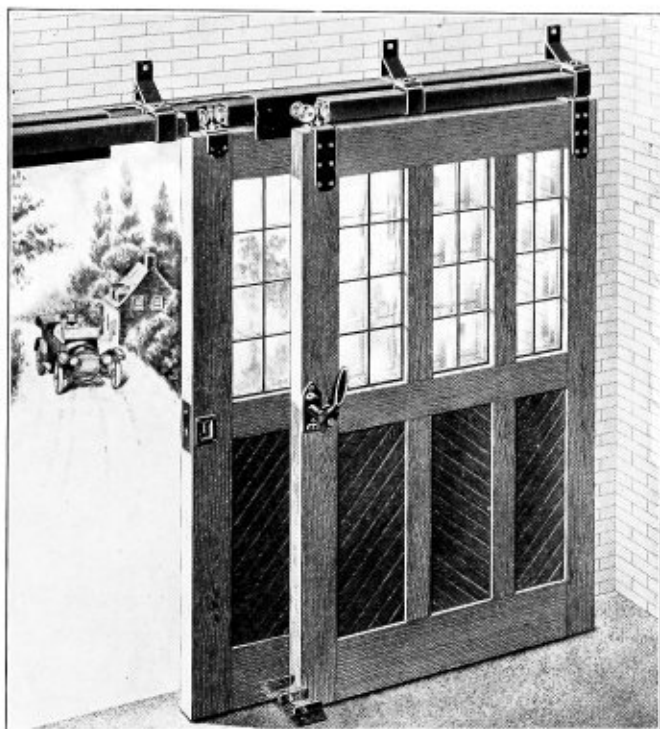
Always specify by number and if any hangers are to operate on curved track, add the word "knuckle-joint" to number in your specification. (See floor plans, page 90, Fig. 9.)

Further information contained in working blue prints on request.

Nos. 256, 257, 258 and 259 R-W Parallel Door Equipment

TRACK ASSEMBLED WITH WEATHER STRIP

MADE IN FOUR SIZES OF TRACK



Track as shown above is assembled complete in sections to accommodate different size openings. Cross section details shown on page 103.

Weather strip extends below top of door which makes equipment absolutely storm-proof. The efficiency and durability of this equipment has been demonstrated by its successful use on garages in different parts of the country.

Hangers for above equipment are same described on opposite page.

PRICE LIST

No. 256 parallel track, No. 31 size, with weather strip, per foot.....	\$.80
No. 257 parallel track, No. 32 size, with weather strip, per foot.....	1.10
No. 258 parallel track, No. 33 size, with weather strip, per foot.....	1.70
No. 259 parallel track, No. 232 size, with weather strip, per foot.....	1.40
No. 172 adjustable parallel door floor guide, (page 99), each.....	1.00

Discount.....

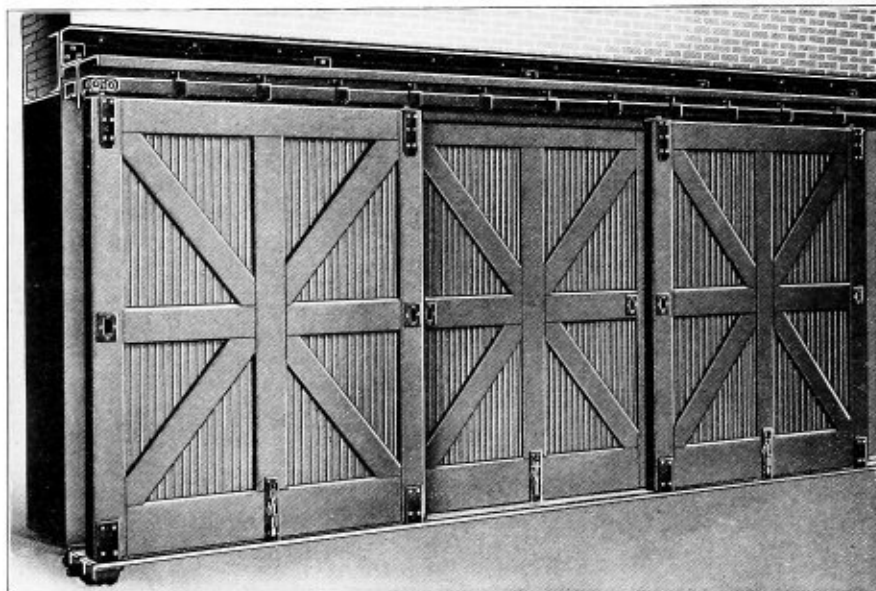
NOTE—Brackets are assembled to track and above price includes same.

Always send sketch showing floor plan, when ordering, and specify by number.

Further information contained in working blue prints on request.

Nos. 251 and 253 R-W Parallel Door Equipment

TROLLEY TRACK TYPE
DESIGNED ESPECIALLY FOR FREIGHT HOUSES, WAREHOUSES,
LUMBER SHEDS AND PIER DOORS



HANGERS HAVE BOTH VERTICAL AND LATERAL ADJUSTMENT

Richards-Wilcox parallel door equipment insures successful operation of continuous parallel doors, and has been especially developed for use on warehouse and freight station doors. Permits an opening at any place desired, eliminating necessity of spotting cars at any particular point.

Track as shown above is assembled complete in sections to accommodate different size openings. It is suitable for attaching to any construction. Cross section details shown on page 103.

Weather strip extends below top of door which makes equipment absolutely storm-proof. The efficiency and durability of this equipment has been demonstrated by its successful use on large constructions in different parts of the country.

PRICE LIST

No. 251 parallel track, No. 33 size, with weather strip, per foot.....	\$1.60
No. 253 parallel track, No. 33 size, with weather strip, (page 103), per foot.....	1.60
No. 150½ B-1 or 2 Overall hanger (see page 81), per pair.....	6.40
No. 70-2 flush pull (see page 102), each.....	.25
No. 519 door bolt (see page 102), each.....	1.50
No. 738 guide plate (see page 98), each.....	.50

Discount

NOTE—Brackets are assembled to track and above price includes same.

Always send sketch showing floor plan, when ordering, and specify by number.

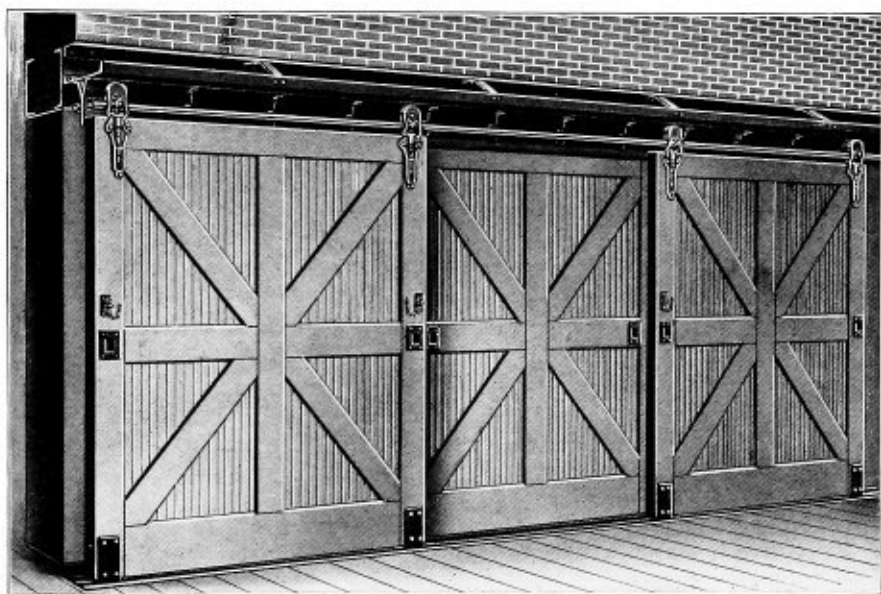
Further information contained in working blue prints on request.



No. 255 R-W Parallel Door Equipment

ROUND TRACK TYPE

USED EXTENSIVELY BY RAILROADS FOR FREIGHT HOUSE AND PIER DOORS



HANGERS HAVE BOTH VERTICAL AND LATERAL ADJUSTMENT

The above round track parallel door equipment operates in same manner as trolley track illustrated on opposite page. This type has proven very popular with railroads and its durability has been demonstrated by its successful use on large freight houses in different parts of the country. Views of these will be sent on request.

This equipment permits an opening at any place desired, eliminating necessity of spotting cars at any particular point.

Track as shown above is assembled complete in sections to accommodate different size openings. It is suitable for attaching to any construction. Cross section details shown on page 103.

Weather strip extends below top of door which makes equipment absolutely storm proof.

PRICE LIST

No. 255 Parallel track, No. 542-C size, with weather strip, per foot.....	\$1.60
No. 642-5 Hanger (see page 104), per pair.....	7.50
No. 70-2 Flush Pull (see page 102), each.....	.25
No. 519 Door bolt (see page 102), each.....	1.50
No. 738 Guide plate (see page 98), each.....	.50

Discount.....

NOTE—Brackets are assembled to track and above price includes same.

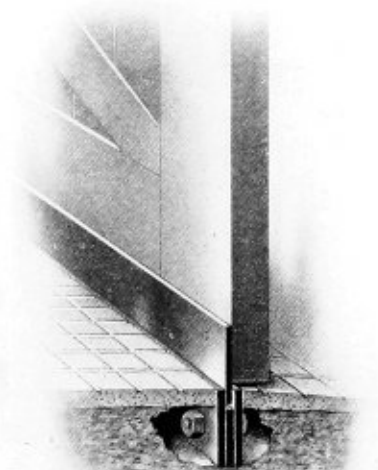
Always send floor plan when ordering, and specify by number.

Further information contained in working blue prints on request.



No. 736 R-W Door Guide and Weather Strip

KEEPS THE GARAGE WARM



With this construction, door can be hung to clear floor, and the steel strip completely covers and protects the opening, also prevents doors from warping. Opening in lower guide allows water to drain. Especially desirable for parallel doors; prevents their chafing. Made of heavy steel and can be set into concrete or wood floor. Steel door strip is $4 \times \frac{3}{16}$ inches; floor strips, $3\frac{1}{2} \times \frac{3}{16}$ inches. Bolts are spaced on 24-inch centers. Weight: door strip, per 100 feet, 250 pounds; floor guide, 900 pounds. NOTE—When ordering state: Thickness and width of door, if single, double or triple parallel and width of opening. Always send floor plan.

PRICE LIST

No. 736 Door guide and floor strip (assembled),
per foot\$1.00

Discount.....

No. 737 R-W Door Guide and Weather Strip

This is the same as above but of lighter construction. Door strip, $3\frac{1}{2}$ inches by 10 gauge; floor strips, $3\frac{1}{2} \times \frac{3}{16}$ inches. Weight: door strip, per 100 feet, 150 pounds; floor guide, 450 pounds.

PRICE LIST

No. 737 Door guide and floor strip (assembled), per foot.....\$.60

Discount.....

See above note when ordering.

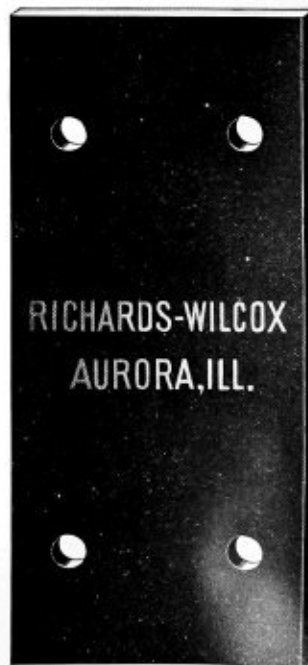
No. 738 R-W Guide Plate

Used on parallel doors. See illustration on pages 96, 97. Prevents doors from swinging and chafing. Made of steel 6 inches wide, $\frac{1}{4}$ inch thick, 11 inches long. Finish, black enamel. Packed in bulk. Weight, each, 4 pounds.

PRICE LIST

No. 738 Guide plate, each.....\$.50

Discount.....



R-W Floor Door Stops and Guides

No. 171—R-W Cast Floor Center Stop

(WILCOX No. 193)

MADE IN THREE SIZES

Floor stop for use with pairs of doors. Can be fastened to floor or imbedded in concrete. Made of grey iron.

PRICE LIST

No. 171-1 For doors 2 inches thick, weight 44 lbs., per dozen.....	\$6.00
No. 171-2 For doors 2½ inches thick, weight 48 lbs., per dozen.....	7.50
No. 171-3 For doors 3 inches thick, weight 54 lbs., per dozen.....	9.00

Discount.....



No. 172—R-W Adjustable Parallel Door Floor Guide

For use with parallel sliding doors. Guides the bottom of the doors and prevents chafing.

Suitable for use with concrete or wood floors.

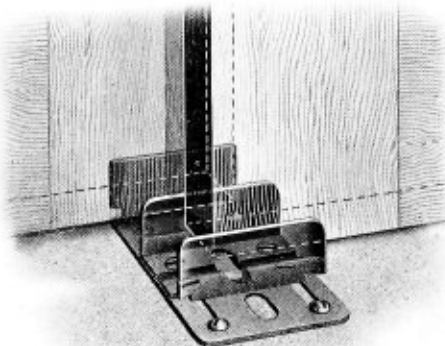
Adjustable for doors 1½ to 3 inches thick.

Weight, 5 pounds.

PRICE LIST

No. 172 Adjustable parallel door floor guide, with screws, each.....	\$1.50
--	--------

Discount.....



No. 271—R-W Adjustable Floor Center Door Guide

For use with pairs of sliding garage doors. Guides the bottom of doors and holds same in place when closed.

Suitable for use with concrete or wood floors.

Adjustable for doors 1½ to 3 inches thick.

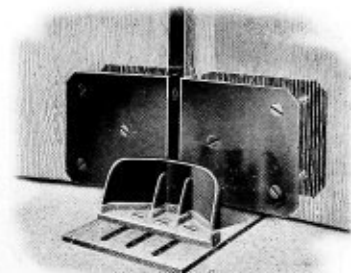
Weight, 4 pounds.

PRICE LIST

No. 271 Adjustable floor center door guide, with screws, each	\$.80
No. 301-72 Steel bumper shoe, each.....	.10

Discount.....

NOTE—Two bumper shoes are used on each end of door. Specify on order if same are desired.



No. 272—R-W Adjustable Floor End Door Guide

For use with sliding right-angle garage doors. Holds the bottom of doors in position when either opened or closed.

Suitable for use with concrete or wood floors.

Adjustable for doors 1½ to 3 inches thick.

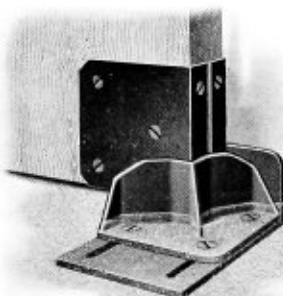
Weight, 3 pounds.

PRICE LIST

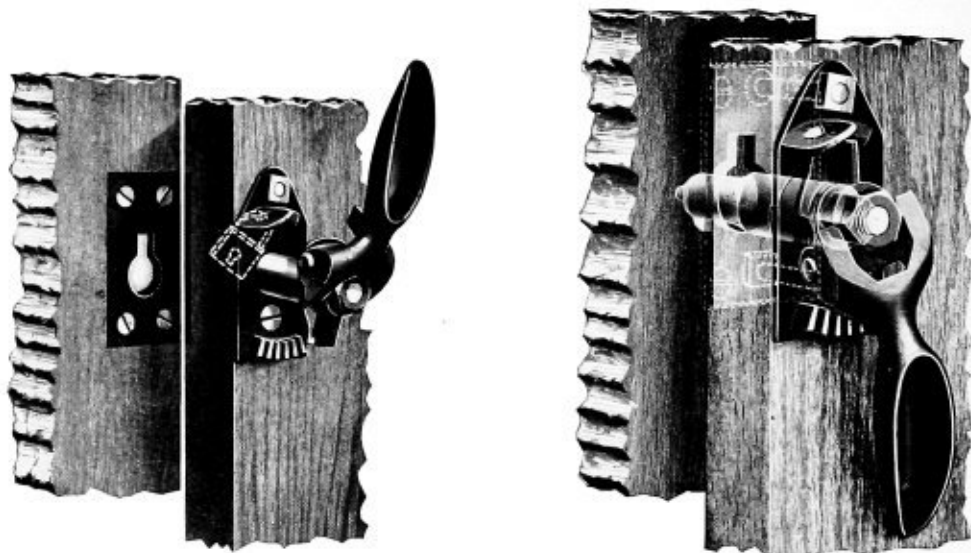
No. 272 Adjustable floor end door guide, with screws, each \$.60	
No. 301-72 Steel bumper shoe, each.....	.10

Discount.....

NOTE—Two bumper shoes are used on each end of door. Specify on order if same are required.



No. 516 R-W Parallel Door Bolt and Lock



MOST SATISFACTORY LOCKING DEVICE FOR PARALLEL GARAGE AND BARN DOORS

Designed especially for garage doors operating on parallel track, but may be used on single doors by inserting keeper casting in the jamb on side wall.

This bolt can be used with No. 235 Single Garage Doors. (See page 91.)

Made of malleable iron and steel.

Suitable for doors $1\frac{3}{4}$ to 3 inches thick.

Lock is inserted in the stile of door, the key or bolt passing entirely through the stile of door on the inside track and into the keeper in the stile of the outside door. When used with single doors, this bolt passes into the keeper inserted in the jamb.

By turning the handle, doors are drawn together and held in that position by a stop lug resting in a notched section on the lock plate. This prevents turning of bolt or same being removed or doors opened.

When used on the outside of building, a padlock can be attached, thus providing a combined bolt and lock.

Doors should lap each other or jamb at least 2 inches.

Finish, regular black enamel; other finishes furnished on application. Packed, one in metal edge box, complete with bolts and screws.

Weight, each, 3 pounds.

PRICE LIST

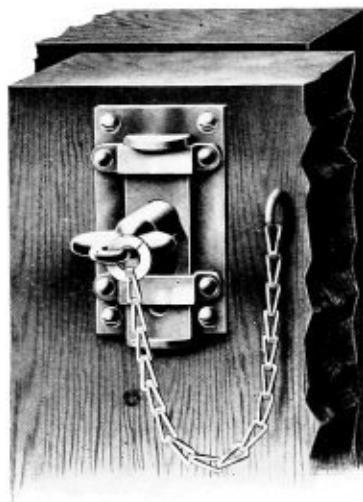
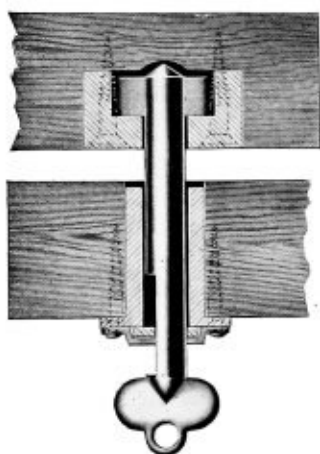
No. 516 Parallel garage door bolt, regular finish, each.....\$1.50

Discount.....



No. 518 R-W Parallel Door Bolt

FOR HEAVY FREIGHT OR WAREHOUSE PARALLEL DOORS



MOST SATISFACTORY LOCKING DEVICE FOR PARALLEL FREIGHT OR WAREHOUSE DOORS

Designed especially for doors operating on parallel track, but may be used on single doors by inserting keeper casting in the jamb on the side wall.

Made of malleable iron and steel.

Suitable for doors $2\frac{1}{2}$ to 3 inches thick.

Lock is inserted in the stile of door, the key passing entirely through the stile of door on the inside of track and into the keeper in the stile of the outside door. When used with single doors, this bolt passes into the keeper inserted in the jamb.

By giving key quarter-turn to left, latch drops by gravity, holding the key to prevent it from turning or being removed.

Doors should lap from $4\frac{1}{2}$ to 6 inches for this bolt.

Finish, black enamel. Packed, one in metal edge box, complete with bolts and screws.

Weight, each, 5 pounds.

PRICE LIST

No. 518 Parallel warehouse door bolt, each.....\$1.50

Discount.....



No. 519 R-W Parallel Door Gravity Bolt

FOR HEAVY FREIGHT OR WAREHOUSE PARALLEL DOORS
AS ILLUSTRATED ON PAGES 96, 97



LOCKS DOORS AUTOMATICALLY, FROM INSIDE ONLY

Bolt made of malleable iron and mounted on steel plate.

As shown in illustration above, bolt drops by gravity through slot in guide strip and is automatically locked in place.

Length of bolt on door, 15 inches, 17 inches over all, when in locked position.

Finish, black enamel. Packed in bulk with bolts and screws.

Weight, each, 3½ pounds.

PRICE LIST

No. 519 Parallel door gravity bolt, each.....\$1.50

Discount.....

No. 70-2 R-W Steel Flush Pull

These pulls are used with the parallel freight and warehouse doors illustrated on pages 96, 97.

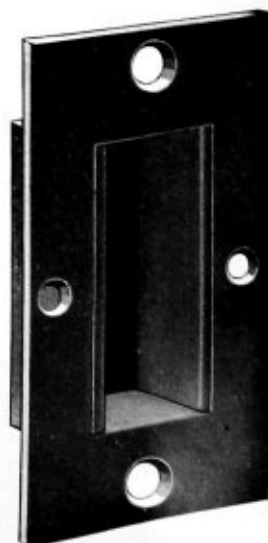
Made of steel and finished black enamel.

Packed in bulk. Weight, each, 1 pound.

PRICE LIST

No. 70-2 Flush pull, each.....\$.25

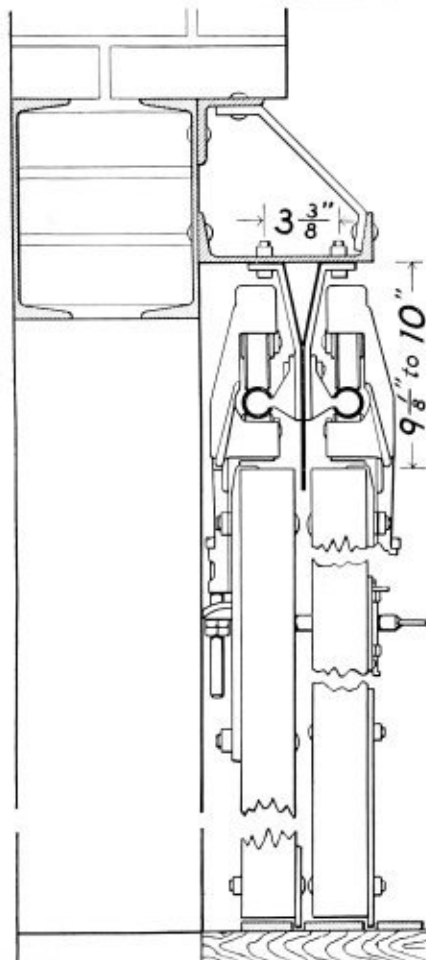
Discount.....



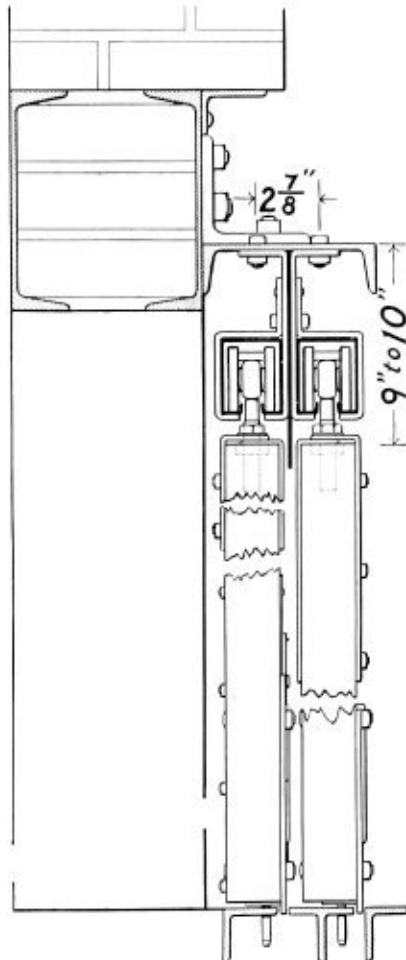
Details of Parallel Door Tracks

ILLUSTRATED ON
PAGES 94, 95,
96, 97

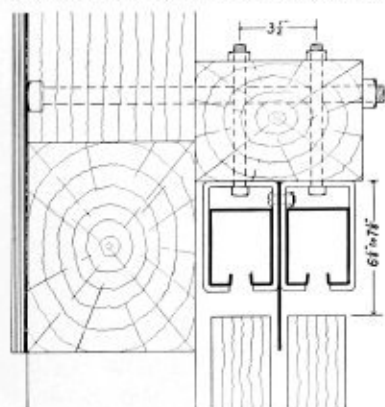
We do not
furnish
channels to
which tracks
are shown
attached



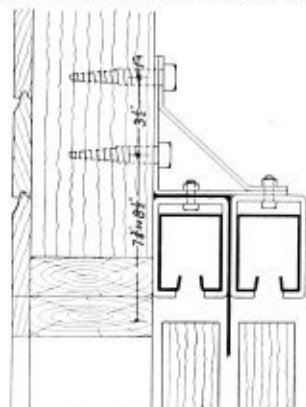
VERTICAL CROSS SECTION, No. 255, "TUBULAR TRACK TYPE"



VERTICAL CROSS SECTION, No. 251, "TROLLEY TRACK TYPE"



VERTICAL CROSS SECTION, No. 253 TYPE



VERTICAL CROSS SECTION, No. 258 TYPE

No. 642-5 R-W Czar Round Track Adjustable Door Hanger

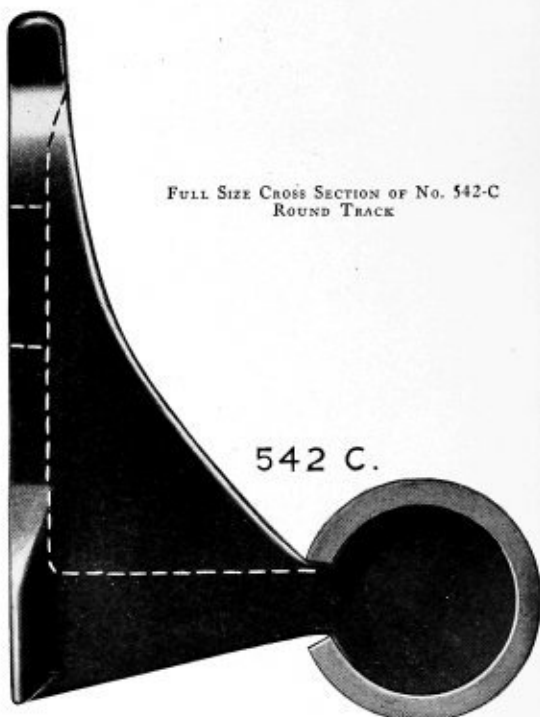


Distance top of door to center of Track: Minimum, 23 $\frac{1}{4}$ inches; Maximum, 5 inches.

Center of track to bolt hole, 13 $\frac{1}{4}$ inches.

Clearance above center of track, 53 $\frac{1}{4}$ inches.

ADJUSTABLE TYPE



FULL SIZE CROSS SECTION OF NO. 542-C
ROUND TRACK

542 C.

Especially designed and constructed to meet the demand for an adjustable hanger to accommodate and insure easy operation of heavy warehouse or freight station doors, fire doors and parallel equipment.

Wheel, malleable iron, lathe turned, 4 $\frac{1}{2}$ inches diameter. Frame, malleable iron, extra heavy and ribbed back. Bearings, hardened steel rollers. Finish, black enamel. Limit roller eliminates binding of hanger on track and prevents derailment of door. Adjustment, lateral and vertical, with positive lock. For doors 1 $\frac{1}{2}$ to 3 $\frac{1}{2}$ inches thick. Length: minimum, 21 $\frac{1}{2}$ inches; maximum, 23 $\frac{3}{4}$ inches; 7 inches wide. Packed 3 pairs in crate. Weight: hangers, per pair, 33 pounds; track with brackets, per foot, 2 $\frac{1}{4}$ pounds.

PRICE LIST

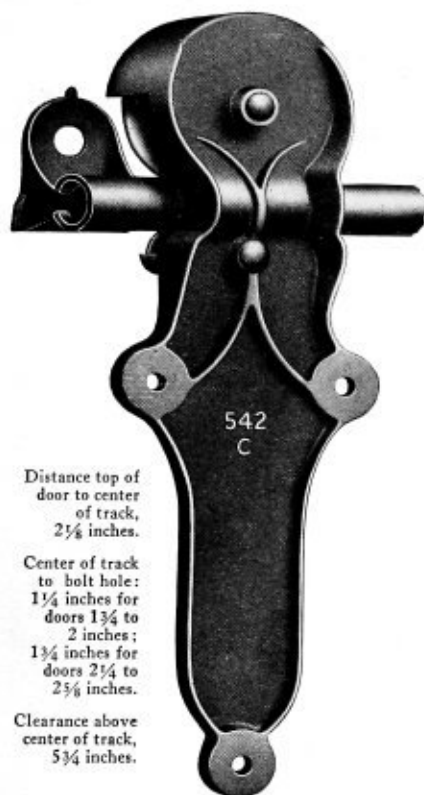
No. 642-5 Hangers, per pair.....	\$7.50
No. 542-C Track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle), with movable malleable brackets, per foot.....	.30

Discount.....

NOTE—When ordering state thickness of doors, width of opening, number of pieces and lengths of track desired.

Brackets should be spaced not to exceed 24-inch centers.

No. 542-C R-W Nobalk, Sr., Round Track Door Hanger

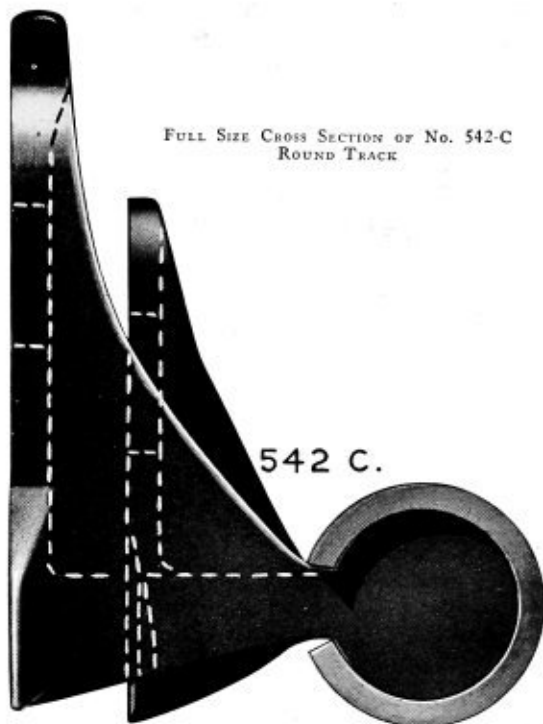


RIGID TYPE

Distance top of door to center of track, $2\frac{1}{8}$ inches.

Center of track to bolt hole: $1\frac{1}{4}$ inches for doors $1\frac{3}{4}$ to 2 inches; $1\frac{3}{4}$ inches for doors $2\frac{1}{4}$ to $2\frac{3}{8}$ inches.

Clearance above center of track, $5\frac{3}{4}$ inches.



FULL SIZE CROSS SECTION OF NO. 542-C ROUND TRACK

Especially designed and constructed to accommodate and insure easy operation of heavy warehouse, freight station and fire doors.

Wheel, malleable iron, lathe turned, $4\frac{3}{8}$ inches diameter. Frame, malleable iron, extra heavy and ribbed back. Bearings, steel rollers. Finish, black enamel. Limit roller eliminates binding of hanger on track and prevents derailment of door. Regularly furnished for doors 28 inches thick. Can be furnished for $1\frac{3}{4}$ to $2\frac{1}{4}$ -inch doors on application. Length, over all, 21 inches; width, 7 inches. Packed three pairs in crate. Weight: hangers, per pair, 22 pounds; track, with brackets, per foot, $2\frac{1}{4}$ pounds.

PRICE LIST

No. 542-C Hangers, per pair.....	\$4.20
No. 542-C Track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle), with movable malleable brackets, per foot.....	.30

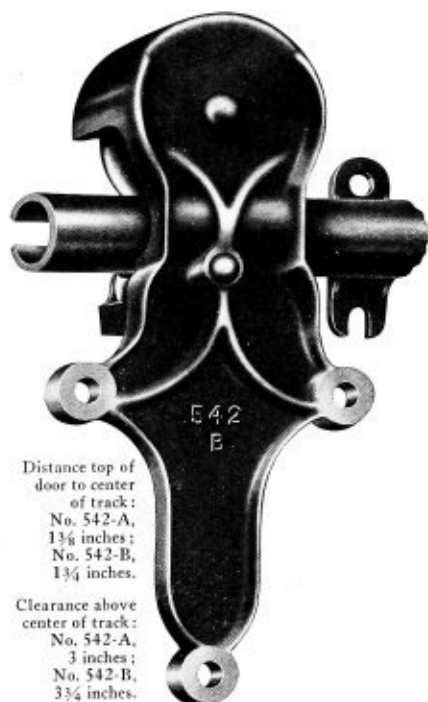
Discount.....

NOTE—When ordering state thickness of doors, width of opening, number of pieces and lengths of track desired.

Brackets should be spaced not to exceed 24-inch centers.

No. 542 R-W Nobalk Round Track Barn Door Hangers

SIZE A, NO BALK, JR., FOR $\frac{3}{8}$ -INCH TRACK
 SIZE B, NO BALK, FOR $1\frac{1}{8}$ -INCH TRACK



Distance top of door to center of track:
 No. 542-A,
 13 $\frac{1}{8}$ inches;
 No. 542-B,
 13 $\frac{1}{4}$ inches.

Clearance above center of track:
 No. 542-A,
 3 inches;
 No. 542-B,
 3 $\frac{3}{4}$ inches.

RIGID TYPE

542 A No. 1.

FULL SIZE CROSS SECTION OF No. 542-A No. 1 ROUND TRACK USED WITH No. 542-A HANGERS.

542 B.

FULL SIZE CROSS SECTION OF No. 542-B ROUND TRACK USED WITH No. 542-B HANGERS.

Wheels, grey iron, lathe turned. Frame, malleable iron, ribbed back. Bearings, steel rollers. Finish, black enamel. Limit roller prevents binding or derailment of door. No. 542-A for doors up to 1 $\frac{3}{4}$ inches thick; No. 542-B for doors 1 $\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts, one center and two end brackets in metal edge box; one dozen pairs in crate; track in bundles; extra brackets in bulk.

HANGERS

Hanger No.	Dimensions	Diameter Wheels	Weight per Dozen Pair	Price List
542-A	9 $\frac{1}{2}$ inches long, 4 inches wide	2 $\frac{1}{4}$ inches	80 pounds	Per Dozen pair, \$16.00
542-B	12 inches long, 5 $\frac{1}{2}$ inches wide	2 $\frac{1}{2}$ inches	110 pounds	Per Dozen pair, 19.20*

TRACK

Track Number	Diameter	Weight per 100 feet with Brackets 2 Foot Centers	Price List per 100 feet with Brackets
542-A-No. 1 (page 111)	$\frac{3}{8}$ inch	72 pounds	\$11.00
542-B (page 111)	1 $\frac{1}{8}$ inches	110 pounds	14.00

Discount.....

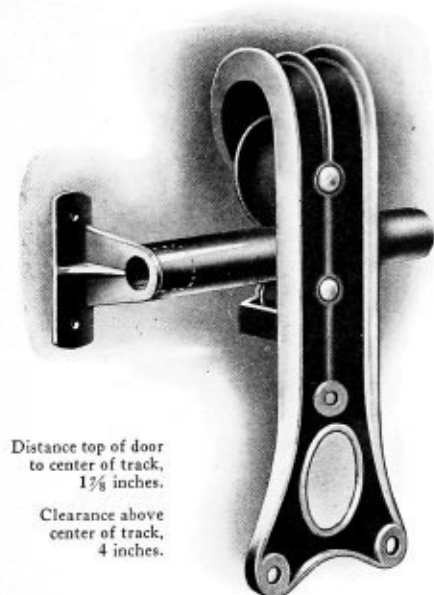
Track furnished in 4, 6, 8 and 10-foot lengths, (ten pieces to bundle).

NOTE—When ordering always state number of pieces and lengths of track desired. Brackets should be spaced not to exceed 24-inch centers.



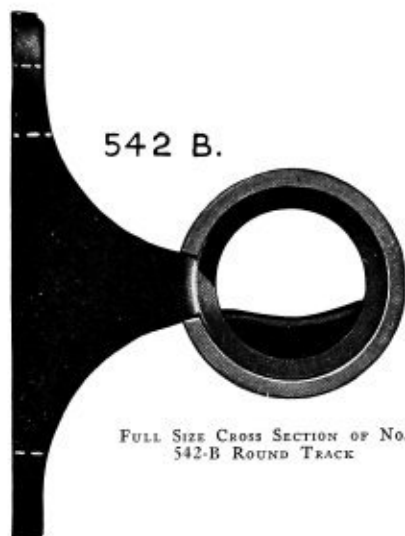
No. 644 R-W Hup Round Track Barn Door Hanger

(WILCOX No. 644)



Distance top of door
to center of track,
 $1\frac{3}{4}$ inches.

Clearance above
center of track,
4 inches.



542 B.

FULL SIZE CROSS SECTION OF NO.
542-B ROUND TRACK

Wheel, grey iron, lathe turned, $2\frac{1}{2}$ inches diameter. Frame, malleable iron, ribbed back. Bearings, steel rollers. Finish, black enamel. Limit roller prevents binding or derailment of door. For doors $1\frac{3}{4}$ to 2 inches thick. Length over all, 11 inches; width, $5\frac{1}{2}$ inches. Packed one pair of hangers with carriage bolts, one center and two end brackets in metal edge box; one dozen pairs in crate. Track in bundles; extra brackets in bulk. Weight: hangers, per dozen pairs, 110 pounds; track, with brackets, per 100 feet, 110 pounds.

PRICE LIST

No. 644 Hangers, per dozen pair.....	\$19.20
No. 542-B Track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle) with movable malleable brackets, per 100 feet.....	14.00

Discount.....

NOTE—When ordering always state number of pieces and lengths of track desired.
Brackets should be spaced not to exceed 24-inch centers.



No. 243

R-W Sure-on Roller-Bearing Round Track Barn Door Hanger

(WILCOX No. 543)

No. 343

R-W Pony Roller-Bearing Round Track Barn Door Hanger

(WILCOX No. 643)



Distance top of door
to center of track,
No. 243, 2 inches;
No. 343, 2 inches.

Clearance above
center of track, 4
inches on either.



243 No. 1.

No. 243

No. 343

FULL SIZE CROSS SECTION
No. 243-1 TRACK

Wheels, grey iron, lathe turned. Pendants, steel. Bearings, steel rollers. Finish, black enamel. Limit roller prevents binding or derailment of door. No. 243 for doors $1\frac{3}{4}$ to 2 inches thick; No. 343 for doors up to $1\frac{3}{4}$ inches thick. Packed one pair of hangers with carriage bolts and one track connection in metal edge box; one dozen pairs in crate; track in bundles. Weight: track, per 100 feet, with brackets, 120 pounds.

PRICE LIST

Hanger No.	Dimensions of Pendant	Diameter Wheels	Weight per Dozen Pairs	List Price
243	$13 \times 2\frac{1}{2} \times \frac{3}{8}$	$2\frac{1}{2}$ inches	120 pounds	Per Dozen pair, \$15.00
343	$12\frac{1}{2} \times 2\frac{1}{4} \times \frac{3}{8}$	$2\frac{1}{2}$ inches	85 pounds	Per Dozen pair, 13.00

No. 243-1 Track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle), with riveted steel brackets, per 100 feet.....\$12.00

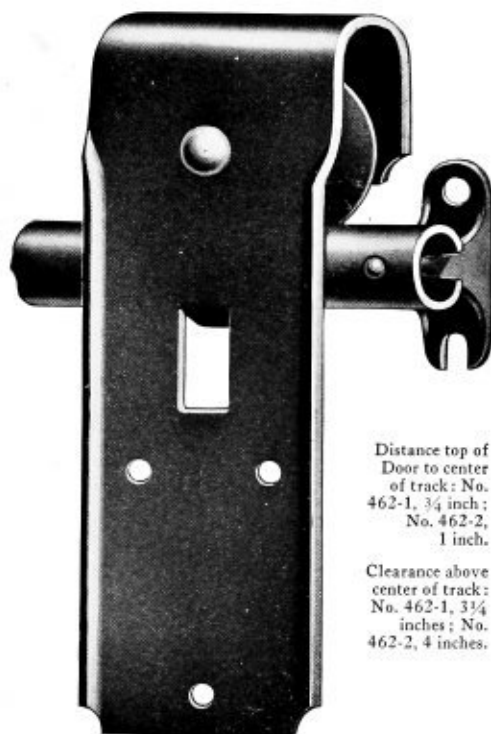
Discount.....

NOTE—When ordering always state number of pieces and lengths of track.



No. 462

R-W Reo Round Track Barn Door Hanger

MADE IN TWO SIZES: NO. 1 FOR $\frac{1}{2}$ -INCH, AND NO. 2 FOR $1\frac{1}{8}$ -INCH TRACK

Distance top of
Door to center
of track: No.
462-1, $3\frac{3}{4}$ inch;
No. 462-2,
1 inch.

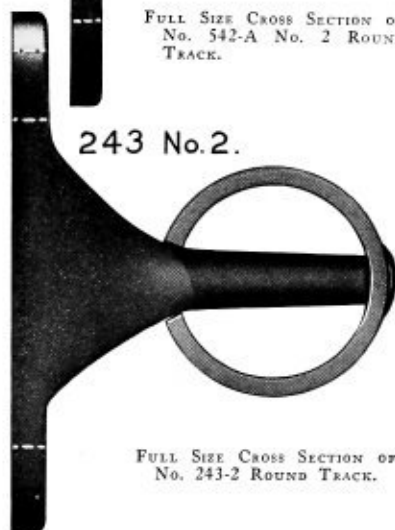
Clearance above
center of track:
No. 462-1, $3\frac{3}{4}$
inches; No.
462-2, 4 inches.

542 A No. 2.



FULL SIZE CROSS SECTION OF
No. 542-A No. 2 ROUND
TRACK.

243 No. 2.



FULL SIZE CROSS SECTION OF
No. 243-2 ROUND TRACK.

Wheels, grey iron, lathe turned. Pendants, steel. Bearings, steel rollers. Finish, black enamel. Limit guide prevents binding or derailment of door. No. 462-1 for doors up to $1\frac{3}{4}$ inches thick; No. 462-2 for doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair of hangers with carriage bolts and one track connection in metal edge box; one dozen pairs in crate; track in bundles. Weight, track, per 100 feet, with brackets: No. 542-A-2, 80 lbs.; No. 243-2, 120 lbs.

PRICE LIST

Hanger No.	Track No.	Dimensions of Pendant	Diameter Wheels	Weight per Dozen Pair	List Price
462-1	542-A-2	$9\frac{1}{2} \times 3 \times \frac{1}{2}$	$2\frac{1}{2}$ inches	60 pounds	\$ 9.00
462-2	243-2	$10\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$	$2\frac{1}{2}$ inches	90 pounds	12.00

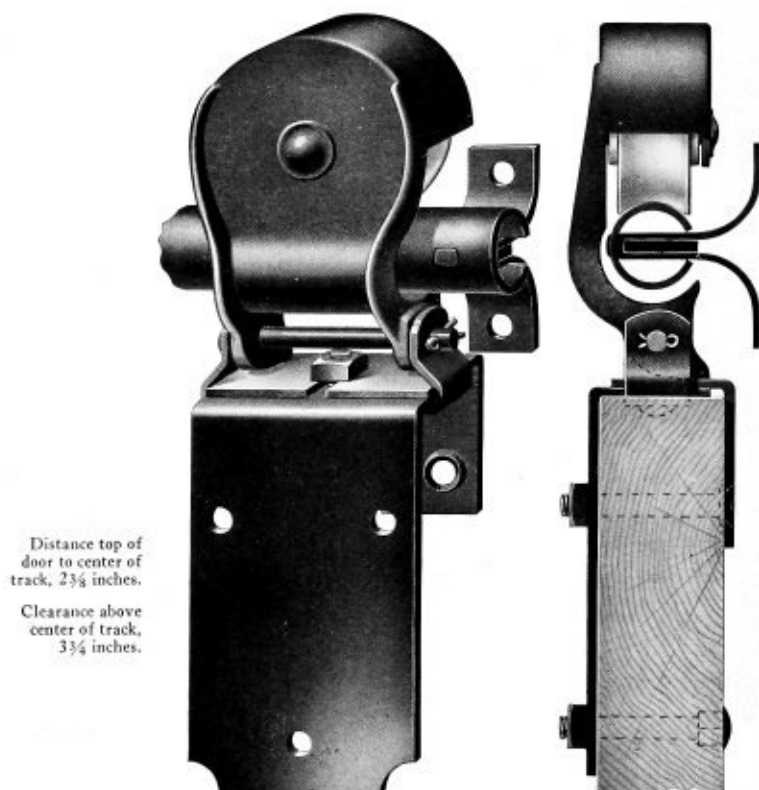
No. 542-A No. 2 track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle), with riveted malleable brackets, per 100 feet.....\$10.00
No. 243-2 Track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle), with riveted malleable brackets, per 100 feet..... 12.00

Discount.....

NOTE—When ordering always state number of pieces and lengths of track.

No. 543 R-W Red Runner Roller-Bearing Round Track Barn Door Hanger

FOR FULL SIZE CROSS SECTION OF TRACK, SEE PAGE 109



Wheel, grey iron, lathe turned, $2\frac{1}{2}$ inches diameter. Hood, malleable iron, protects wheel from weather. Bearings, steel rollers. Finish, black enamel with wheel finished in red. Adjustment, lateral only. Flexible joint. Apron, hinged, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{1}{8}$ inch thick. For doors $1\frac{3}{4}$ to $2\frac{1}{2}$ inches thick. Packed one pair of hangers with carriage and stove bolts, and one track connection in metal edge box; one dozen pairs in crate; track in bundles. Weight: hangers, per dozen pairs, 115 pounds; track, per 100 feet, 120 pounds.

PRICE LIST

No. 543 Hangers, per dozen pairs.....	\$17.50
No. 243-1 Track (page 111) in 4, 6, 8 and 10-foot lengths (10 pieces to bundle), with riveted brackets, per 100 feet.....	12.00

Discount.....

NOTE—When ordering always state number of pieces and lengths of track.

R-W Round Tracks and Brackets



No. 243-1 RIVETED STEEL
BRACKET TUBULAR TRACK

No. 243-2 RIVETED BRACKET
TUBULAR TRACK



No. 542-A No. 1 MOVABLE
MALLEABLE BRACKET
TUBULAR TRACK WITH NO.
542-A CENTER BRACKET AND
NO. 542-A END BRACKET

No. 542-A No. 2 RIVETED
BRACKET TUBULAR TRACK



No. 542-B MOVABLE
MALLEABLE BRACKET
TUBULAR TRACK WITH
NO. 542-B CENTER
BRACKET AND NO. 542-B
END BRACKET



No. 542-C MOVABLE MALLEABLE BRACKET TUBULAR TRACK
WITH NO. 542-C CENTER BRACKET AND
NO. 542-C END BRACKET

Track No.	Gauge Steel	Outside Diameter Inches	Standard Lengths Feet	Pieces to Bundle	Weights per 100 ft. with Brackets Pounds	Price List per 100 feet
243-1	14	1 $\frac{5}{8}$	4-6-8-10	10	120	\$12.00
243-2	14	1 $\frac{5}{8}$	4-6-8-10	10	120	12.00
542A-No. 1	14	1 $\frac{3}{8}$	4-6-8-10	10	72	11.00
542A-No. 2	14	1 $\frac{3}{8}$	4-6-8-10	10	80	10.00
542B	14	1 $\frac{5}{8}$	4-6-8-10	10	110	14.00
542C	10	1 $\frac{7}{8}$	4-6-8-10	10	225	30.00

BRACKETS

No. 542-A No. 1 Center brackets, less screws, each.....	\$.04
No. 542-A No. 1 End brackets, less screws, each.....	.04
No. 542-B Center brackets, less screws, each.....	.06
No. 542-B End brackets, less screws, each.....	.06
No. 542-C Center brackets, less bolts, each.....	.16
No. 542-C End brackets, less bolts, each.....	.16

NOTE—When ordering state length and number of pieces required. No. 542-C track is always furnished for 2 $\frac{3}{8}$ -inch doors unless otherwise specified.
Brackets should be spaced not to exceed 24-inch centers.

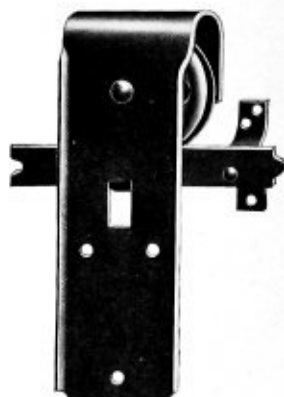
Discount.....

No. 37 R-W Ajax Roller-Bearing Barn Door Hanger

MADE IN TWO SIZES
FOR DOORS $1\frac{1}{2}$ INCHES THICK

No. 1 Size. Track, $1 \times \frac{3}{16}$ inch, No. 61 type. Wheels, grey iron, 3 inches diameter. Bearings, steel rollers. Pendant, steel, $3\frac{1}{2} \times \frac{1}{8}$ inches, $10\frac{1}{2}$ inches long.

No. 2 Size. Track, $1\frac{1}{4} \times \frac{3}{16}$ inch, No. 63 type. Wheels, grey iron, 4 inches diameter. Bearings, steel rollers. Pendant, steel, $4 \times \frac{1}{8}$ inches, 12 inches long. Finish, japan. Hangers packed one dozen pairs in crate; track, ten pieces in bundle. Weight: per dozen pairs, No. 1, 80 pounds; No. 2, 95 pounds; track, per 100 feet, No. 61, 80 pounds; No. 63, 100 pounds.



PRICE LIST

No. 37-1 Hangers, per dozen pairs.....	\$15.00
No. 37-2 Hangers, per dozen pairs.....	18.00
No. 61 Track, (Page 122) per 100 feet.....	5.00
No. 63 Track, (Page 122) per 100 feet.....	6.50

Discount.....



No. 43 R-W Ezy Roller-Bearing Barn Door Hanger

(WILCOX No. 143)
MADE IN TWO SIZES: FOR DOORS $1\frac{1}{2}$ INCHES THICK

No. 1 size track, $1 \times \frac{3}{16}$ inch, No. 61 type. Wheels, grey iron, $3\frac{1}{2}$ inches diameter. Bearings, steel rollers. Pendant, steel, $1\frac{1}{2} \times \frac{3}{16}$ inches, 12 inches long.

No. 2 size track, $1\frac{1}{4} \times \frac{3}{16}$ inches, No. 63 type. Wheels, grey iron, $3\frac{1}{2}$ inches diameter. Bearings, steel rollers. Pendant, steel, $2 \times \frac{3}{16}$ inches, 15 inches long. Finish, japan. Hangers packed one dozen pairs in crate; track, ten pieces in bundle. Weight: per dozen pairs, No. 1, 50 pounds; No. 2, 75 pounds; track, per 100 feet, No. 61, 80 pounds; No. 63, 100 pounds.

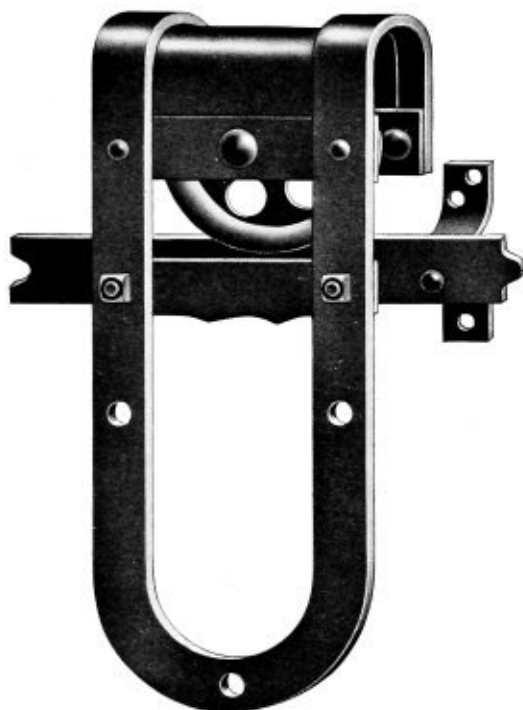
PRICE LIST

No. 43-1 Hangers, per dozen pairs.....	\$12.00
No. 43-2 Hangers, per dozen pairs.....	14.00
No. 61 Track (page 122), per 100 feet.....	5.00
No. 63 Track (page 122), per 100 feet.....	6.50

Discount.....

No. 38 R-W World Roller-Bearing Barn Door Hanger

MADE IN THREE SIZES FOR DOORS 1 1/4 INCHES THICK



Adjustable limit stop permits use of track 1 to 1 1/4 inches wide and also prevents hanger from jumping off of track. Wheels in all sizes are grey iron. Bearings, steel rollers. Pendants, steel, with hood to protect wheel from weather. Finish, japan. Hangers packed one dozen pairs in crate; track, ten pieces in bundle.

No.	Pendants Inches	Diameter Wheels Inches	TRACK		WEIGHT	
			No.	Size Inches	Hangers, 1 doz. pr.	Track, 100 Feet
38-1	12 x 1 x 1 3/4	3 1/4	61	1 x 1 3/4	85 lbs.	80 lbs.
38-2	13 x 1 x 1 1/4	4	63	1 1/4 x 1 3/4	110 lbs.	100 lbs.
38-3	14 x 1 1/4 x 1 1/4	5	68	1 1/4 x 1 1/4	145 lbs.	130 lbs.

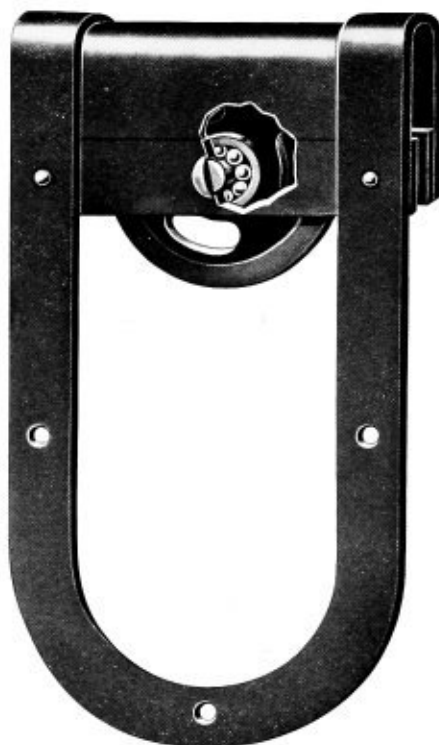
PRICE LIST

No. 38-1 Hangers, per dozen pairs.....	\$15.00
No. 38-2 Hangers, per dozen pairs.....	18.00
No. 38-3 Hangers, per dozen pairs.....	22.00
No. 61 Track (page 122), per 100 feet.....	5.00
No. 63 Track (page 122), per 100 feet.....	6.50
No. 68 Track (page 122), per 100 feet.....	8.00

Discount.....

No. 41 R-W Universal Roller-Bearing Steel Barn Door Hanger

(WILCOX No. 142)
MADE IN THREE SIZES



FOR DOORS 1 3/4 INCHES THICK

Wheels, in all sizes, are grey iron. Bearings, steel rollers. Pendants, steel with hood to protect wheel from weather. Finish, japan. Hangers packed one dozen pairs in crate; track, ten pieces in bundle.

No.	Pendants Inches	Diameter Wheels Inches	TRACK		WEIGHT	
			No.	Size Inches	Hangers, 1 doz. pt.	Track, 100 feet
41-1	12 x 1 x 3/16	3 1/2	61	1 x 3/16	85 lbs.	80 lbs.
41-2	13 x 1 x 1/4	4	63	1 1/2 x 3/16	110 lbs.	100 lbs.
41-3	14 x 1 1/4 x 1/4	5	68	1 1/2 x 1/4	145 lbs.	130 lbs.

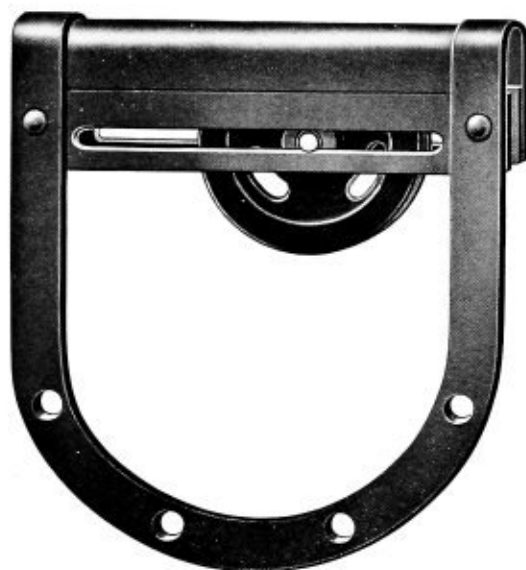
PRICE LIST

No. 41-1 Hangers, per dozen pairs.....	\$15.00
No. 41-2 Hangers, per dozen pairs.....	18.00
No. 41-3 Hangers, per dozen pairs.....	22.00
No. 61 Track (page 122), per 100 feet.....	5.00
No. 63 Track (page 122), per 100 feet.....	6.50
No. 68 Track (page 122), per 100 feet.....	8.00

Discount.....

No. 42 R-W Erie Anti-Friction Barn Door Hanger with Traveling Wheel

(WILCOX No. 136)
MADE IN FOUR SIZES



FOR DOORS $1\frac{3}{4}$ INCHES THICK

Wheels in all sizes are grey iron. Bearings, anti-friction, loose axle. Pendants, steel, with hood to protect wheel from weather. Finish, japan. Hangers packed one dozen pairs in crate, except No. 6, one-half dozen pairs in crate; track, ten pieces in bundle.

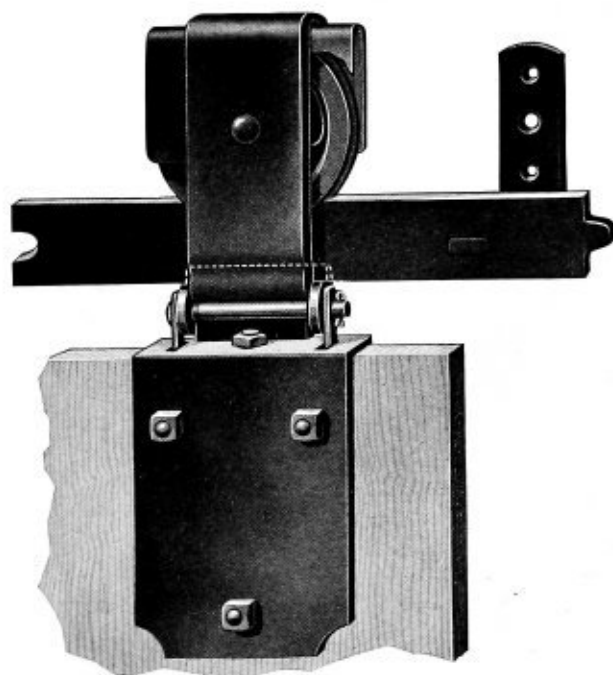
No.	Pendants Inches	Diameter Wheels Inches	TRACK		WEIGHT	
			No.	Size Inches	Hangers, 1 doz. pr.	Track, 100 feet
42-3	$11 \times 1 \times \frac{3}{16}$	$3\frac{1}{2}$	61	$1 \times \frac{3}{16}$	110 lbs.	80 lbs.
42-4	$12 \times 1 \times \frac{1}{4}$	4	63	$1\frac{1}{4} \times \frac{1}{4}$	140 lbs.	100 lbs.
42-5	$14 \times 1\frac{1}{4} \times \frac{1}{4}$	5	68	$1\frac{1}{4} \times \frac{1}{4}$	175 lbs.	130 lbs.
42-6	$17 \times 1\frac{1}{2} \times \frac{1}{4}$	6	69	$1\frac{1}{2} \times \frac{1}{4}$	320 lbs.	140 lbs.

PRICE LIST

No. 42-3 Hangers, per dozen pairs.....	\$15.00
No. 42-4 Hangers, per dozen pairs.....	18.00
No. 42-5 Hangers, per dozen pairs.....	25.00
No. 42-6 Hangers, per dozen pairs.....	36.00
No. 61 Track (page 122), per 100 feet.....	5.00
No. 63 Track (page 122), per 100 feet.....	6.50
No. 68 Track (page 122), per 100 feet.....	8.00
No. 69 Track (page 122), per 100 feet.....	8.50

Discount.....

No. 147 R-W Flex Roller-Bearing Flexible Barn Door Hanger



Track, $1\frac{1}{4} \times \frac{3}{8}$ -inch, No. 50 type. Wheels, grey iron, $3\frac{1}{2}$ inches diameter. Bearings, steel rollers. Finish, japan. Adjustment, lateral only. Flexible joint. Apron, hinged, 6 inches long, 4 inches wide, $\frac{1}{8}$ inch thick, punched for $\frac{1}{8}$ -inch bolts. For doors $1\frac{3}{4}$ to 2 inches thick. Packed one pair hangers with carriage bolts in metal edge box, 12 pairs in crate; track, ten pieces in bundle. Weight: hangers, per dozen pairs, 110 pounds; track, per 100 feet, 110 pounds.

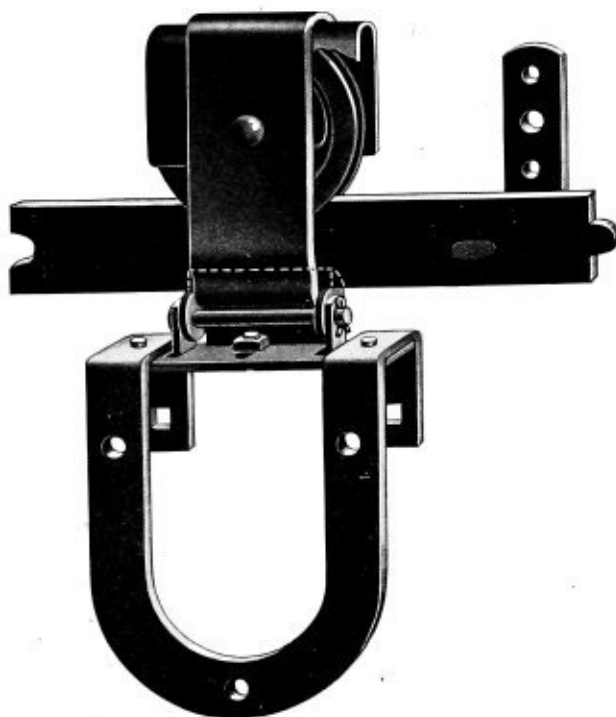
PRICE LIST

No. 147 Hangers, per dozen pairs.....	\$16.00
No. 50 Track (page 122), per 100 feet.....	7.20

Discount.....



No. 247
R-W Ever-on Roller-Bearing Adjustable Hinged
Barn Door Hanger



Track, $1\frac{1}{2} \times \frac{3}{16}$ -inch, No. 50 type. Wheels, grey iron, $3\frac{1}{2}$ inches diameter. Bearings, steel rollers. Finish, japan. Adjustment, lateral only. Flexible joint. Apron, steel, $1 \times \frac{1}{2}$ -inch, $6\frac{1}{2}$ inches long, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{3}{4}$ inches thick. Packed one pair hangers with carriage bolts in metal edge box, 12 pairs in crate; track, ten pieces in bundle. Weight: hangers, per dozen pairs, 110 pounds; track, per 100 feet, 110 pounds.

PRICE LIST

No. 247 Hangers, per dozen pairs.....	\$16.00
No. 50 Track (page 122), per 100 feet.....	7.20

Discount.....

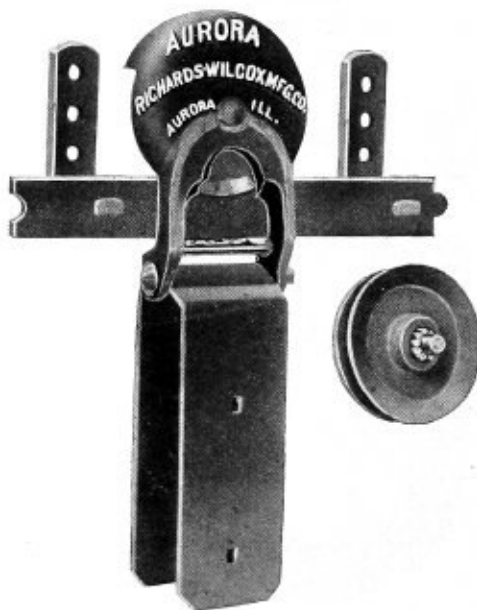
**AURORA**
TRADE
MARK

Reg. U.S. Pat. Off.

No. 843

**R-W Aurora, Jr. Roller-Bearing Flexible
Barn Door Hanger**

(WILCOX No. 843)



Track, $1\frac{1}{4} \times \frac{3}{16}$ -inch. No. 50 type. Wheels, grey iron, 3 inches diameter. Bearings, steel rollers. Hood, malleable iron. Protects wheel from weather. Finish, japan. Flexible joint. Apron, hinged, 5 inches long, $2\frac{1}{4}$ inches wide, $\frac{1}{8}$ -inch thick, punched for $\frac{3}{16}$ -inch bolts. For doors $1\frac{1}{4}$ to 2 inches thick. Packed one pair hangers with carriage bolts in metal edge box, 12 pairs in crate; track, ten pieces in bundle. Weight: hangers, per dozen pairs, 85 pounds; track, per 100 feet, 110 pounds.

PRICE LIST

No. 843 Hangers, per dozen pairs.....	\$16.00
No. 50 Track (page 122), per 100 feet.....	7.20

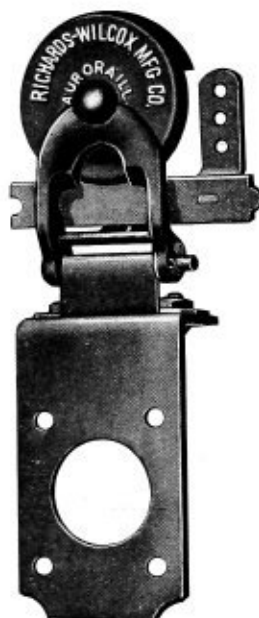
Discount.....



No. 1143

R-W Aurora Roller-Bearing Flexible Barn Door Hanger

(Wilcox No. 1143)



Track, $1\frac{1}{4} \times \frac{3}{16}$ -inch, No. 50 type. Wheels, grey iron, 3 inches diameter. Bearings, steel rollers. Hood, malleable iron. Protects wheel from weather. Finish, japan. Adjustment, lateral only. Flexible joint. Apron, hinged, 6 inches long, $3\frac{1}{2}$ inches wide, $\frac{3}{16}$ inch thick, punched for $\frac{5}{16}$ -inch bolts. For doors $1\frac{1}{4}$ to 2 inches thick. Packed one pair hangers with carriage bolts in metal edge box, 12 pairs in crate; track, ten pieces in bundle. Weight: hangers, per dozen pairs, 100 pounds; track, per 100 feet, 110 pounds.

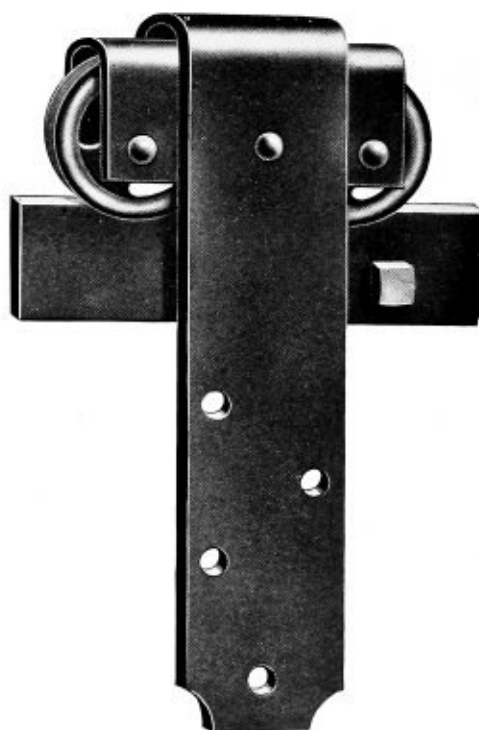
PRICE LIST

No. 1143 Hangers, per dozen pairs.....	\$16.00
No. 50 Track (page 122), per 100 feet.....	7.20

Discount.....

No. 44 R-W Tandem Roller-Bearing Barn and Warehouse Door Hanger

(WILCOX No. 144)
MADE IN FOUR SIZES



Nos. 1 and 2 size for 1 $\frac{1}{4}$ -inch doors. Nos. 2 $\frac{1}{2}$ and 3 size, when using No. 65 track, for 2 to 2 $\frac{1}{4}$ -inch doors. When using No. 101 track for 2 to 3-inch doors.

Track, either Modern, Holdfast or Flat Bar type. Wheels, in all sizes are grey iron. Bearings, steel rollers. Pendants, steel with hood to protect wheel from weather. Finish, japan. Hangers packed Nos. 1 and 2 one dozen pairs in crate; Nos. 2 $\frac{1}{2}$ and 3 one-quarter dozen pairs in crate.

No.	Pendants Inches	Diameter Wheels Inches	Track No.	Weight Hangers, 1 doz. pair Pounds
44-1	14 x 2 $\frac{1}{2}$ x $\frac{3}{16}$	3 $\frac{1}{2}$	63 or 65	110
44-2	16 x 3 $\frac{1}{2}$ x $\frac{3}{16}$	4	63 or 65	190
44-2 $\frac{1}{2}$	22 x 3 $\frac{1}{2}$ x $\frac{1}{2}$	4 $\frac{1}{2}$	65 or 101	300
44-3	22 x 3 $\frac{1}{2}$ x $\frac{5}{16}$	4 $\frac{1}{2}$	65 or 101	350

PRICE LIST

No. 44-1 Hangers, per dozen.....	\$20.00
No. 44-2 Hangers, per dozen.....	30.00
No. 44-2 $\frac{1}{2}$ Hangers, per dozen.....	50.00
No. 44-3 Hangers, per dozen.....	70.00
Track according to size specified. For prices, etc., see pages 122, 123.	

NOTE—When ordering always specify track by number.

Discount.....

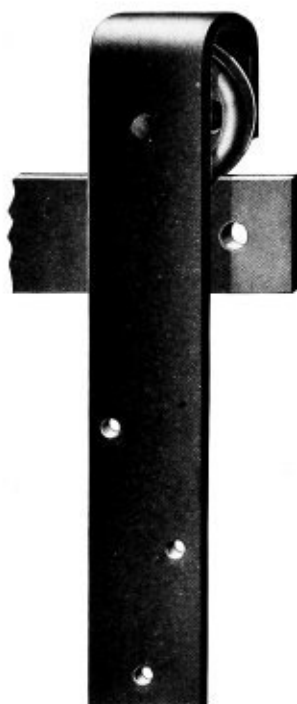
No. 101 R-W Safety Warehouse and Pier Door Hanger

(WILCOX Nos. 201-201½)

MADE IN THREE SIZES



No. 101-2



Nos. 101-1 AND 3

DESIGNED ESPECIALLY FOR HEAVY WAREHOUSE DOORS, STABLE DOORS AND GATES

Track, $\frac{3}{8}$ -inch steel, in three widths, and furnished with grey iron cone brackets spaced 30 inches apart. Wheels in all sizes are grey iron. Bearings, steel rollers. Pendants, steel and extra heavy. Finish, japan. Hangers, packed 3 pairs in crate.

No.	Pendants Inches	Diameter Wheels Inches	Track No.	Weight Hangers per pair Pounds
101-1	$3\frac{1}{2} \times \frac{1}{4} \times 20$	$4\frac{1}{2}$	101 as specified	16
101-2	$3\frac{1}{2} \times \frac{3}{8} \times 22$	$6\frac{1}{4}$	101 as specified	30
101-3	$3\frac{1}{2} \times \frac{5}{8} \times 22$	5	101 as specified	28

PRICE LIST

No. 101-1 Hangers, per pair.....	\$2.90
No. 101-2 Hangers, per pair.....	3.50
No. 101-3 Hangers, per pair.....	3.50
No. 101 Track, $\frac{3}{8} \times 2\frac{1}{2}$ inches with cone brackets (page 123), per foot.....	.30
No. 101 Track, $\frac{3}{8} \times 3$ inches with cone brackets (page 123), per foot.....	.34
No. 101 Track, $\frac{3}{8} \times 3\frac{1}{2}$ inches with cone brackets (page 123), per foot.....	.38
Extra No. 85-1 cone brackets for 2-inch doors (page 123), each.....	.14
Extra No. 85-2 cone brackets for $2\frac{1}{2}$ to $2\frac{5}{8}$ -inch doors (page 123), each.....	.16
Extra No. 85-3 cone brackets for 3-inch doors (page 123), each.....	.18

Discount.....

NOTE—When ordering state thickness of doors and width of track desired. Always specify by number.



No. 50 R-W Holdfast Steel Barn Door Rail

(WILCOX No. 207)



Track, steel, $1\frac{1}{4}$ inches wide, $\frac{3}{16}$ inch thick. Furnished in 4, 6, 8 and 10-foot lengths. Finish, japan. This type of track is used with all styles of hinged hangers. Wired ten pieces in bundle. Weight, per 100 feet, 110 pounds.

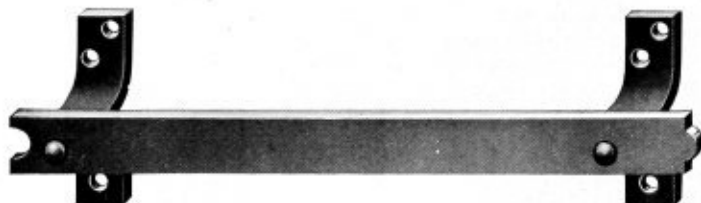
PRICE LIST

No. 50 Track, per 100 feet.....\$7.20

Discount.....

Nos. 61, 62, 63, 64, 68 and 69 R-W Modern Steel Barn Door Rail

(WILCOX Nos. 166, 145, 209 AND 211)



Furnished in 4, 6, 8 and 10-foot lengths. No. 63 is also furnished in 7-foot lengths. Finish, japan. Wired ten pieces in bundle.

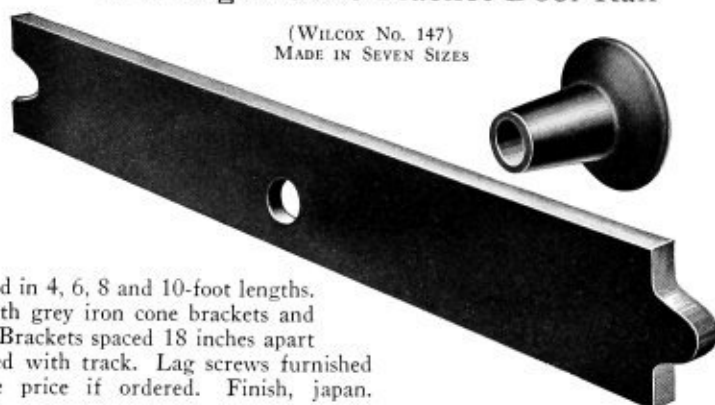
PRICE LIST

	No. 61	No. 62	No. 63	No. 64	No. 68	No. 69
Weight pounds, per 100 feet .	80	90	100	120	130	140
Dimensions in inches	$1 \times \frac{3}{16}$	$1\frac{1}{2} \times \frac{3}{16}$	$1\frac{1}{4} \times \frac{3}{16}$	$1\frac{1}{2} \times \frac{3}{16}$	$1\frac{1}{4} \times \frac{1}{4}$	$1\frac{1}{2} \times \frac{1}{4}$
Price, per 100 feet	\$5.00	\$5.60	\$6.50	\$7.00	\$8.00	\$8.50

Discount.....

No. 65 R-W Light Cone Bracket Door Rail

(WILCOX No. 147)
MADE IN SEVEN SIZES



Furnished in 4, 6, 8 and 10-foot lengths. Attached with grey iron cone brackets and lag screws. Brackets spaced 18 inches apart and furnished with track. Lag screws furnished at moderate price if ordered. Finish, japan.

PRICE LIST

	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7
Weight pounds, per 100 feet	90	103	114	135	166	195	220
Dimensions in inches	$1\frac{1}{4} \times 1\frac{3}{4}$	$1\frac{1}{2} \times 1\frac{3}{4}$	$1\frac{1}{2} \times \frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{2}$	$1\frac{1}{2} \times \frac{5}{8}$	$1\frac{3}{4} \times \frac{5}{8}$	$2 \times 1\frac{1}{4}$
Price per 100 feet	\$6.50	\$7.00	\$7.00	\$8.00	\$11.00	\$12.00	\$13.00

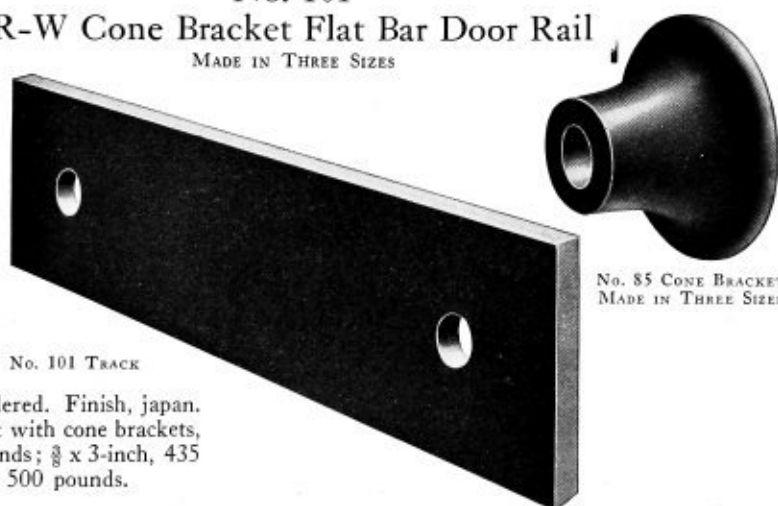
Discount.....

No. 101 R-W Cone Bracket Flat Bar Door Rail

MADE IN THREE SIZES

Furnished in any length up to 16 feet. Attached with grey iron cone brackets spaced 30 inches apart and furnished with track. Lagscrews, expansion bolts or machine bolts furnished for attaching track at moderate price if ordered. Finish, japan. Weight, per 100 feet with cone brackets, $\frac{3}{8} \times 2\frac{1}{2}$ -inch, 370 pounds; $\frac{3}{8} \times 3$ -inch, 435 pounds; $\frac{3}{8} \times 3\frac{1}{2}$ -inch, 500 pounds.

No. 101 TRACK



No. 85 CONE BRACKET
MADE IN THREE SIZES

PRICE LIST

No. 101 Track, $\frac{3}{8} \times 2\frac{1}{2}$ inches with cone brackets, per foot.....	\$.30
No. 101 Track, $\frac{3}{8} \times 3$ inches with cone brackets, per foot.....	.34
No. 101 Track, $\frac{3}{8} \times 3\frac{1}{2}$ inches with cone brackets, per foot.....	.38
Extra No. 85-1 cone brackets for 2-inch doors, each.....	.14
Extra No. 85-2 cone brackets for $2\frac{1}{2}$ to $2\frac{3}{4}$ -inch doors, each.....	.16
Extra No. 85-3 cone brackets, for 3-inch doors, each.....	.18

Discount.....

NOTE—When ordering state thickness of doors and width of track desired. Always specify by number.

R-W Trolley Overhead Carrying Equipment and Labor-Saving Devices

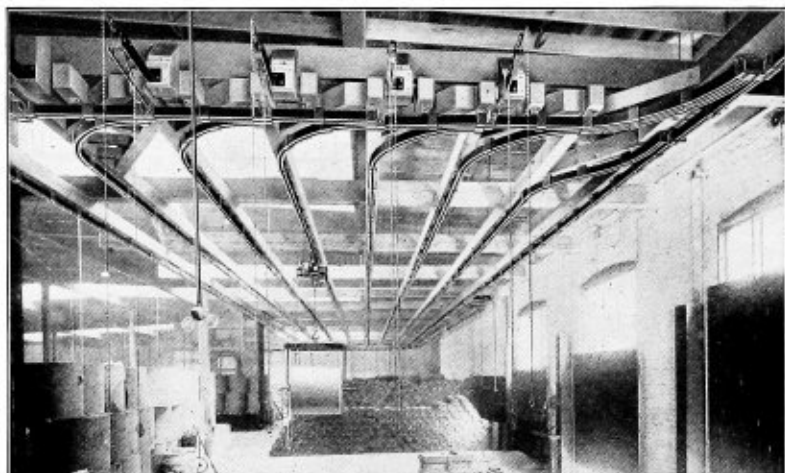
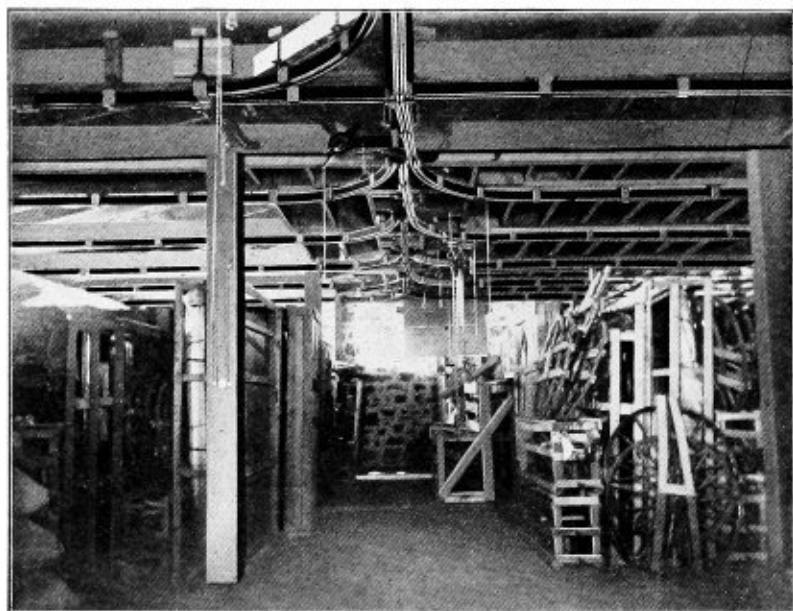


ILLUSTRATION OF PARALLEL TRACKS WITH CURVES AND SWITCHES, USED BY THE
BAKRETT MFG. CO., CHICAGO, ILL., FOR HANDLING ROOFING PAPER



THIS ILLUSTRATION REPRESENTS A SECTION OF THE R-W TROLLEY EQUIPMENT IN A LARGE
WAREHOUSE OF THE CONSOLIDATED WAGON AND MACHINE CO., IDAHO FALLS, IDAHO

Information Required—Always send sketch, giving correct dimensions and proposed layout of tracks. State weight and size of maximum load, if for constant or occasional use and if track will be used for storage purposes. Send detail of overhead construction, so proper brackets will be furnished.

Erection—To insure proper erection we furnish blue prints in detail and mark all material to correspond.

R-W Trolley Overhead Carrying Track

MADE IN TWO SIZES AND FOUR GAUGES

**FULL SIZE CROSS SECTION
No.175 TROLLEY TRACK**

**FULL SIZE CROSS SECTION
No.75 TROLLEY TRACK**

**FULL SIZE CROSS SECTION
No.275 TROLLEY TRACK**

**FULL SIZE CROSS SECTION
No.375 TROLLEY TRACK**

Straight track
furnished in
lengths up to
ten feet in
one piece
Curved track
furnished for any
radius 24 inches
or larger and
any degree

PRICE LIST

Track No.	Gauge	Weight per foot, lbs.	Straights per foot	Curved per foot
75	14	2	\$.20	\$1.30
175	13	4	.48	2.00
275	12	4½	.50	2.10
375	10	5½	.54	2.20

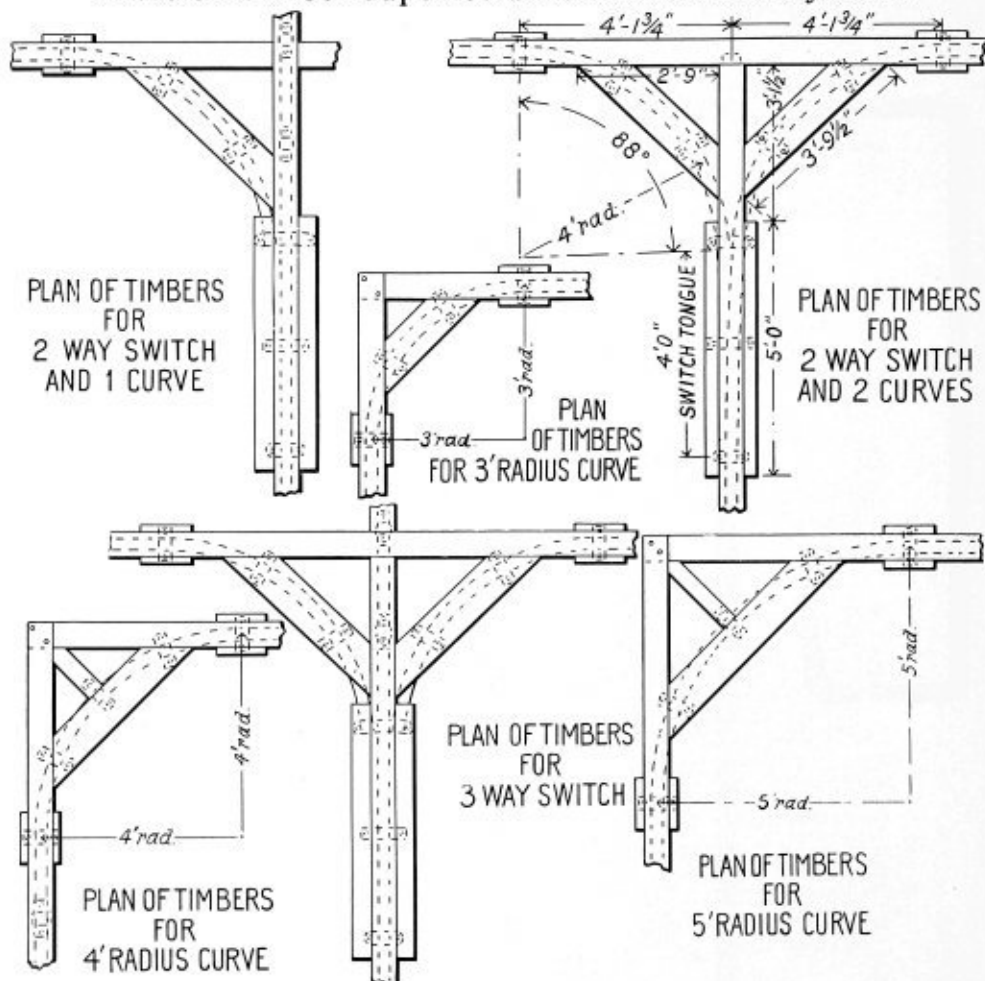
Discount.....

Brackets furnished for these tracks to suit requirements.

For prices, etc., see pages 128-129.

NOTE—Always have radius of curved track larger than 24 inches.

Plans of Timber Super-Structure for Carrier Systems



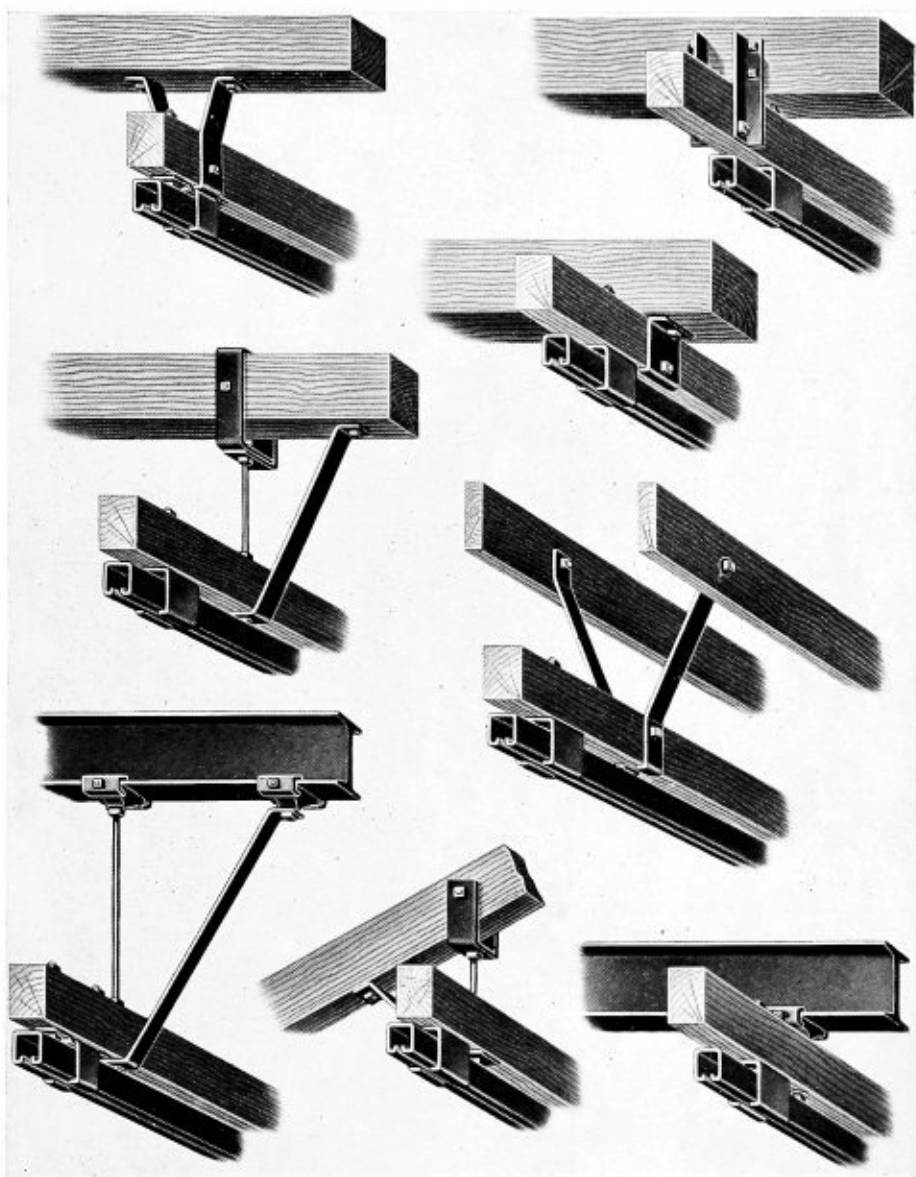
NOTE—To insure easy operation, always have radius of curved track as large as conditions will permit. No carriers will operate in a smaller radius than 24 inches.

SAFE CONCENTRATED LOADS ON YELLOW PINE BEAMS

Span in ft.	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Size Beam Inches	Safe concentrated load in pounds at 1000 pounds per sq. in. maximum fibre stress, beams set with longest side vertical													
2 x 6	400	350	305	275	255	225	205	190	175	160	150	135	125	115
2 x 8	740	645	570	510	460	420	385	355	330	300	285	265	245	230
2 x 10	1185	1030	915	815	740	675	620	570	525	490	460	430	405	375
4 x 4	365	320	280	250	220	200	185	165	150	140	125	115	105	95
4 x 6	895	775	685	610	555	500	460	420	385	360	330	310	285	270
4 x 8	1645	1440	1270	1135	1030	935	855	785	730	675	625	585	550	515
6 x 6	1385	1205	1065	945	850	775	710	650	600	550	510	475	445	415
6 x 8	2560	2225	1970	1760	1590	1450	1325	1220	1115	1045	975	910	850	795
6 x 10	4085	3560	3155	2825	2555	2325	2135	1965	1825	1700	1580	1480	1385	1305
8 x 8	3465	3015	2675	2385	2160	1960	1800	1655	1530	1420	1315	1230	1150	1080
8 x 10	5540	4830	4275	3830	3460	3155	2890	2670	2475	2300	2150	2010	1885	1770
8 x 12	8095	7065	6255	5610	5080	4635	4255	3930	3640	3390	3170	2970	2790	2630

NOTE—Above figures allow for weight of beam and are based on actual size of beams instead of nominal size.

Cuts Showing Different Ways of Attaching R-W Trolley Overhead Carrying Track to Super-Structures



Above illustrations will meet almost all conditions. We will gladly make erecting blue prints covering both overhead carrying track and superstructures on application. Erecting blue prints of track and brackets always sent with material.

Dimensions of R-W Trolley Overhead Carrying Track Brackets

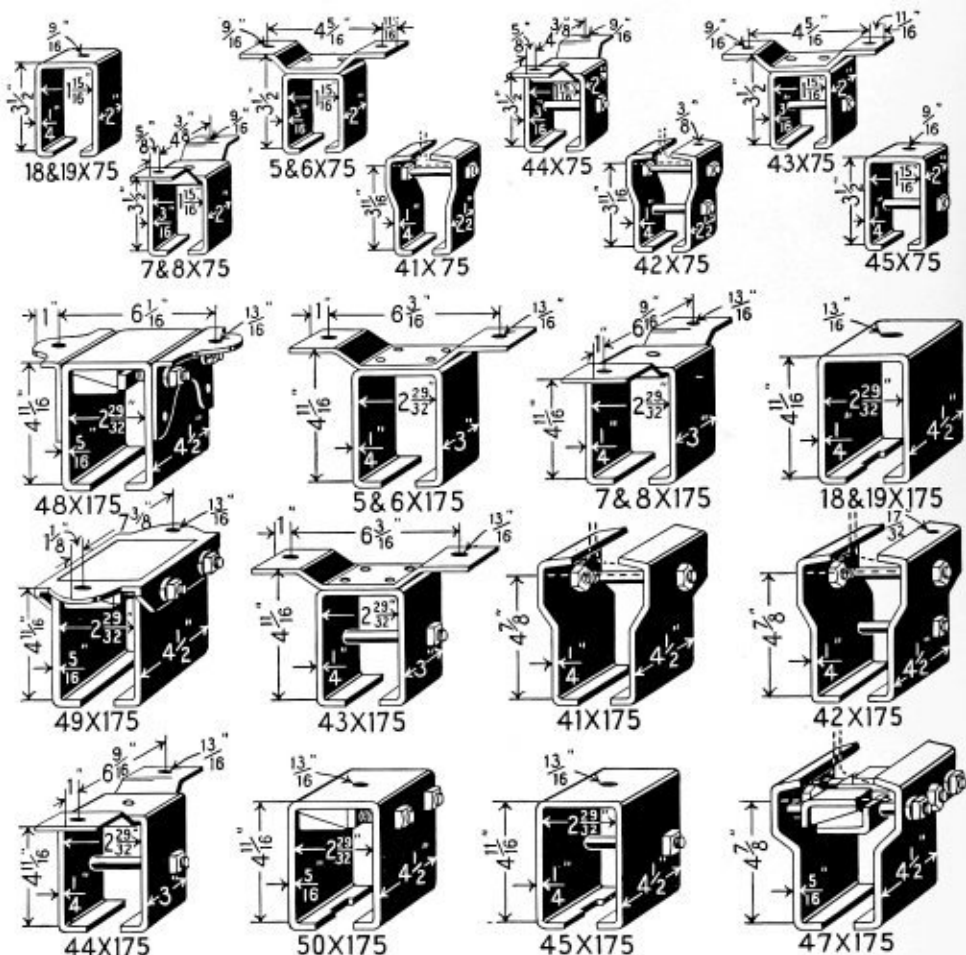
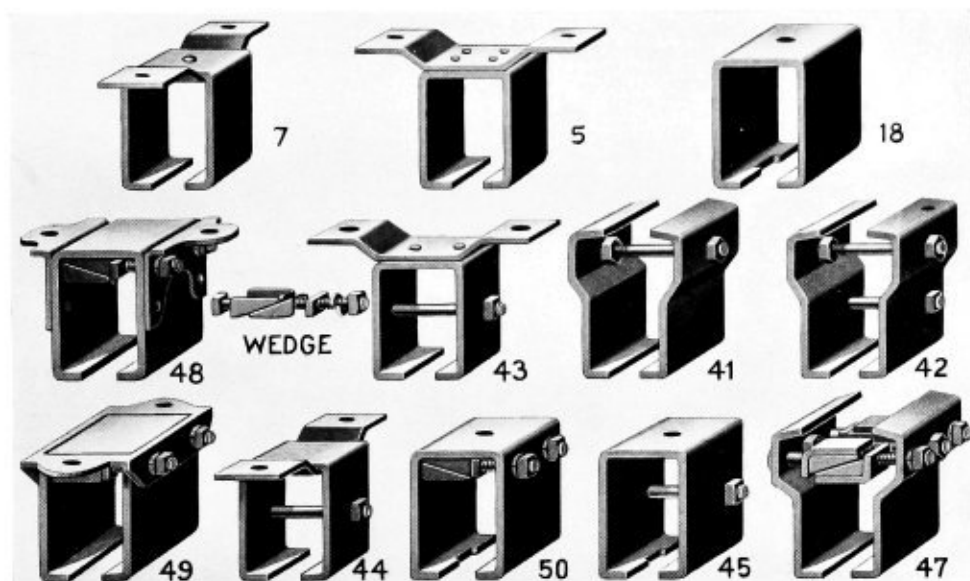


TABLE SHOWING SPACING OF BRACKETS ACCORDING TO LOAD

SIZE OF CARRIER	TRACK No.	LOAD ON CARRIER									
		125 lbs.	250 lbs.	500 lbs.	750 lbs.	1000 lbs.	1250 lbs.	1500 lbs.	2000 lbs.	2500 lbs.	3000 lbs.
4 Wheel	75	36"	30"	24"	18"	12"	9"	6"	4"	3"	2"
8 Wheel	75	36"	36"	36"	30"	22"	15"	12"	9"	6"	4"
16 Wheel	75	36"	36"	36"	30"	22"	15"	12"	9"	6"	4"
4 Wheel	175	36"	36"	36"	30"	22"	15"	12"	9"	6"	4"
	275	42"	21"	15"	12"	9"	6"	4"	3"	2"	1"
	375	54"	30"	18"	12"	9"	6"	4"	3"	2"	1"
8 Wheel	175	36"	36"	36"	30"	22"	15"	12"	9"	6"	4"
	275	42"	21"	15"	12"	9"	6"	4"	3"	2"	1"
	375	48"	32"	24"	20"	17"	15"	12"	9"	6"	4"
16 Wheel	175	36"	36"	36"	30"	22"	15"	12"	9"	6"	4"
	275	42"	21"	15"	12"	9"	6"	4"	3"	2"	1"
	375	42"	36"	30"	24"	20"	17"	15"	12"	9"	6"

R-W Trolley Overhead Carrying Track Brackets



PRICE LIST

Bracket No.	DESCRIPTION	For Track No.—Each	
		75	175-275 375
5	Cross ear ceiling center bracket	\$.16	\$.44
7	Parallel ear ceiling center bracket	.16	.44
18	Plain ceiling center bracket	.16	.44
41	I Beam center bracket	.40	.60
42	I Beam end bracket with bolt	.40	.60
43	Cross ear ceiling R or L end bracket with bolt	.40	.60
44	Parallel ear ceiling R or L end bracket with bolt	.40	.60
45	Plain ceiling R or L end bracket with bolt	.40	.60
46			
47	I Beam joint bracket with wedge	x	1.80
48	Cross ear ceiling joint bracket with wedge	x	1.80
49	Parallel ear ceiling joint bracket with wedge	x	1.80
50	Plain ceiling joint bracket with wedge	x	1.50

Discount.....

Numbers and Description. List Prices for black enamel finish.

Important—Always specify catalog number of track for which brackets are desired and finish. Example—If a No. 5 bracket for No. 75 track is wanted, show as follows: 5 x 75; if for No. 175 Track, show 5 x 175 bracket, etc. No. 275 and No. 375 brackets are same as No. 175.

NOTE—X indicates "Not manufactured for this type of track."

Joint brackets with wedge should be used on every track joint to insure proper results.

For galvanized brackets add 15% to above List Prices on No. 75 Track, and 20% on No. 175-275-375 Track.

When ordering I-Beam Brackets, always specify sizes and weight per foot of I-Beam. Unless otherwise specified, brackets for Standard Light Sections will be sent.

Prices on special brackets to meet any conditions furnished on request.



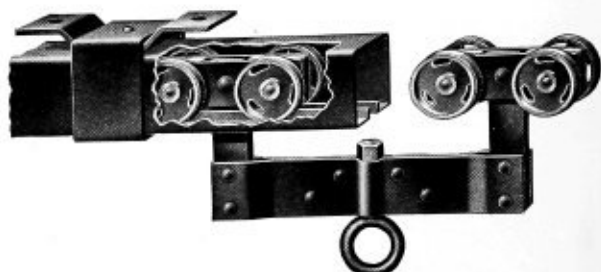
No. 100-1 to 6

R-W Trolley Overhead Roller-Bearing Rigid Carriers

FOR STRAIGHT TRACK ONLY—MADE FOR TWO SIZES OF TRACK AND SIX CAPACITIES
FOR FOUNDRIES, FACTORIES, WAREHOUSES, WHERE HEAVY
MATERIAL IS TRANSPORTED



No. 100-1 AND 100-4



No. 100-2 AND 100-5



No. 100-3 AND 100-6

Wheels in all above are gray iron, lathe turned. (For diameter, see table below.) Bearings, hardened steel rollers. Constructed of heavy steel frames and connecting bars. Eyebolt, drop forged and heat treated. Finish, japan. Packed in bulk. The capacity specified below is figured to allow a liberal factor of safety.

Number	Wilcox Number	For Track No.	Capacity in Pounds	Diameter Wheels Inches	Length over all Inches	Bottom of Track to Bottom of Eye, Inches	Eye Bolt		Weight Pounds	Price List Each
							Diameter Stem, Inches	Diameter Eye, Inches		
100-1	28½	75	200	2½	5	3½	1½	1½	2	\$1.50
100-2	40½	75	500	2½	14	5½	1½	1½	8	4.00
100-3	38½	75	1000	2½	30	6½	1½	1½	21	8.00
100-4	28	175	600	3	7	3½	1½	1½	5	4.00
100-5	40	175	1500	3	20	6½	1½	1½	15	6.40
100-6	38	175	3000	3	44	8	1½	1½	50	12.80

No. 75 Track, 14 gauge, (page 125), per foot.....\$.20

No. 175 Track, 13 gauge, (page 125), per foot..... .46

If heavier track is desired specify No. 275 or 375 instead of No. 175.

No. 275 Track, (same size as No. 175), 12 gauge, (page 125), per foot..... .52

No. 375 Track, (same size as No. 175), 10 gauge, (page 125), per foot..... .70

Brackets to suit requirements. For prices, description, etc., see page 129.

Discount.....

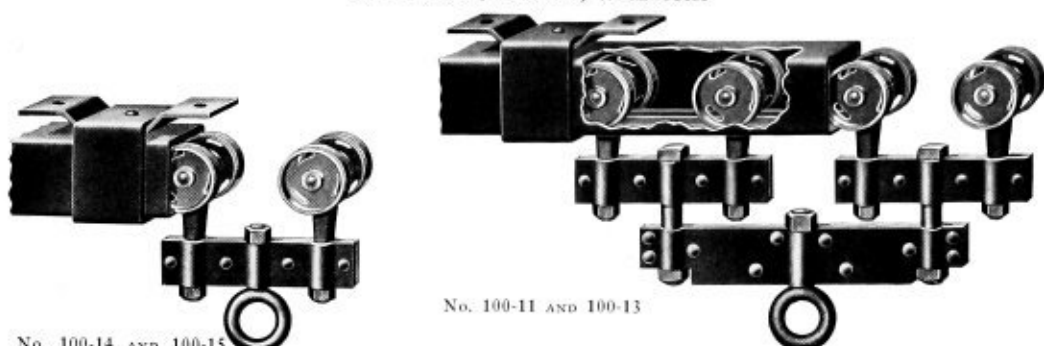
Directions for Ordering—Always send sketch, giving correct dimensions and proposed layout of tracks. State weight and size of maximum load, if for constant or occasional use and if track will be used for storage purposes. Send detail of Overhead construction so proper brackets will be furnished. Blue prints showing material and proper erection always furnished.



No. 100-10 to 15

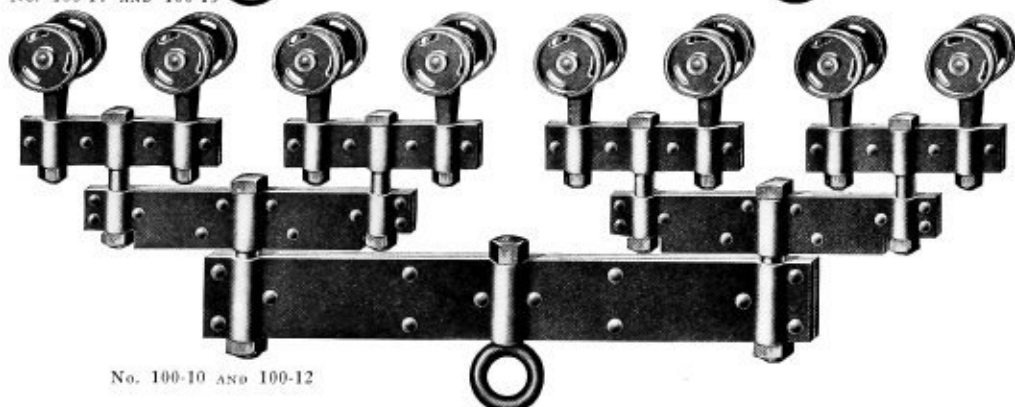
R-W Trolley Overhead Roller-Bearing Swivel Carriers

FOR CURVED TRACK—MADE FOR TWO SIZES OF TRACK AND SIX CAPACITIES
FOR FOUNDRIES, FACTORIES, WAREHOUSES



No. 100-11 AND 100-13

No. 100-14 AND 100-15



No. 100-10 AND 100-12

CARRIERS WILL NOT OPERATE IN CURVES SMALLER THAN 24-INCH RADIUS

Wheels in all above are gray iron, lathe turned. (For diameter see table below.) Bearings, hardened steel rollers. Pendants, drop forged; each set, (two wheels and pendant), forms a complete unit which swivels independently, permitting carrier to operate in either straight or curved track. Frames and connecting bars of heavy steel construction. Eye bolt, drop-forged and heat-treated. Finish, japan. Packed in bulk. The capacity specified below is figured to allow a liberal factor of safety.

Number	Wilcox Number	For Track No.	Capacity In Pounds	Diameter Wheels Inches	Length over all Inches	Bottom of Track to Bottom of Eye Inches	EYE BOLT		Weight Pounds	Price List Each
							Diameter Stem Inches	Diameter Eye Inches		
100-10	37	175	3000	3	44	13 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$	60	\$20.00
100-11	39	175	1500	3	21	9 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{1}{2}$	20	12.00
100-12	37 $\frac{1}{2}$	75	1000	2 $\frac{1}{2}$	31	10	$\frac{3}{4}$	1 $\frac{1}{2}$	26	12.00
100-13	39 $\frac{1}{2}$	75	500	2 $\frac{1}{2}$	14	6 $\frac{3}{4}$	$\frac{3}{4}$	1 $\frac{1}{2}$	10	6.40
100-14	27 $\frac{1}{2}$	75	250	2 $\frac{1}{2}$	7	4 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{2}$	4	3.00
100-15	27	175	750	3	9	5 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{2}$	8	7.00

No. 75 Track, 14 gauge, (Page 125), per foot.....\$.20

No. 175 Track, 13 gauge, (Page 125), per foot......46

If heavier track is desired specify No. 275 or 375 instead of No. 175.

No. 275 Track, (same size as No. 175), 12 gauge, (Page 125), per foot......52

No. 375 Track, (same size as No. 175), 10 gauge, (Page 125), per foot......70

Brackets to suit requirements. For prices, description, etc., see page 129.

Discount.....

Directions for Ordering—State weight and size of maximum load, if for constant or occasional use.

No. 100-25 to 30 R-W Trolley Overhead Ball-Bearing Rigid Carriers

FOR STRAIGHT TRACK ONLY—MADE FOR TWO SIZES OF TRACK AND SIX CAPACITIES
FOR FOUNDRIES, FACTORIES, WAREHOUSES, WHERE HEAVY
MATERIAL IS TRANSPORTED



No. 100-25 AND 100-28



No. 100-26 AND 100-29



No. 100-27 AND 100-30

Wheels in all above are gray iron, lathe turned. (For diameter see table below). Bearings, High Duty steel balls. Frames, drop-forged, with heavy steel pendants. Connecting bars, malleable iron. Eye bolt, drop-forged and heat-treated. Finish, japan. Packed in bulk. The capacity specified below is figured to allow a liberal factor of safety.

Number	For Track No.	Capacity in Pounds	Diameter Wheels Inches	Length over all Inches	Bottom of Track to Bottom of Eye Inches	EYE BOLT		Weight Pounds	Price List Each
						Diameter Stem Inches	Diameter Eye Inches		
100-25	75	250	2½	5	2½	1½	1½	2	\$ 2.00
100-26	75	500	2½	12	5½	1½	1½	6	5.00
100-27	75	1000	2½	27	8½	1½	1½	15	10.00
100-28	175	600	3	7	3	1½	1½	5	5.00
100-29	175	1250	3	16	6½	1½	1½	12	8.00
100-30	175	2500	3	34	10½	1½	1½	36	16.00

No. 75 Track, 14 gauge, (Page 125), per foot.....\$.20

No. 175 Track, 13 gauge, (Page 125), per foot......46

If heavier track is desired specify No. 275 or 375 instead of No. 175.

No. 275 Track, (same size as No. 175), 12 gauge, (Page 125), per foot......52

No. 375 Track, (same size as No. 175), 10 gauge, (Page 125), per foot......70

Brackets to suit requirements. For prices, description, etc, see page 129.

Discount.....

Directions for Ordering—Always send sketch, giving correct dimensions and proposed layout of tracks. State weight and size of maximum load, if for constant or occasional use and if track will be used for storage purposes. Send detail of Overhead construction so proper brackets will be furnished. Blue prints showing material and proper erection always furnished.



No. 100-31 to 36

R-W Trolley Overhead Ball-Bearing Swivel Carriers

FOR CURVED TRACK—MADE FOR TWO SIZES OF TRACK AND SIX CAPACITIES
FOR FOUNDRIES, FACTORIES, WAREHOUSES



No. 100-31 AND 100-34

No. 100-32 AND 100-35



No. 100-33 AND 100-36

CARRIERS WILL NOT OPERATE IN CURVES SMALLER THAN 24-INCH RADIUS

Wheels in all above are gray iron, lathe turned. (For diameter see table below). Bearings, High Duty steel balls. Frames, drop-forged, knuckle-jointed with heavy steel pendants. Each set, (four wheels and pendant), forms a complete unit which swivels independently, permitting carrier to operate in either straight or curved track. Connecting bars, malleable iron. Eye bolt, drop-forged and heat-treated. Finish, japan. Packed in bulk. The capacity specified below is figured to allow a liberal factor of safety.

Number	For Track No.	Capacity in Pounds	Diameter Wheels Inches	Length over all Inches	Bottom of Track to Bottom of Eye Inches	EYE BOLT		Weight Pounds	Price List Each
						Diameter Stem Inches	Diameter Eye Inches		
100-31	75	250	2½	5	2½	1/2	1½	2	\$ 3.50
100-32	75	500	2½	12	5½	1/2	1½	6	7.40
100-33	75	1000	2½	27	8½	1/2	1½	15	15.00
100-34	175	600	3	7	3	3/4	1½	5	8.00
100-35	175	1250	3	16	6½	3/4	1½	12	15.00
100-36	175	2500	3	34	10½	3/4	1½	36	24.00

No. 75 Track, 14 gauge, (Page 125), per foot.....\$.20

No. 175 Track, 13 gauge, (Page 125), per foot......46

If heavier track is desired specify No. 275 or 375 instead of No. 175.

No. 275 Track, (same size as No. 175), 12 gauge, (Page 125), per foot......52

No. 375 Track, (same size as No. 175), 10 gauge, (Page 125), per foot......70

Brackets to suit requirements. For prices, description, etc., see page 129.

Discount.....

Directions for Ordering—Always send sketch, giving correct dimensions and proposed layout of tracks. State weight and size of maximum load, if for constant or occasional use and if track will be used for storage purposes. Send detail of Overhead construction so proper brackets will be furnished. Blue prints showing material and proper erection always furnished.

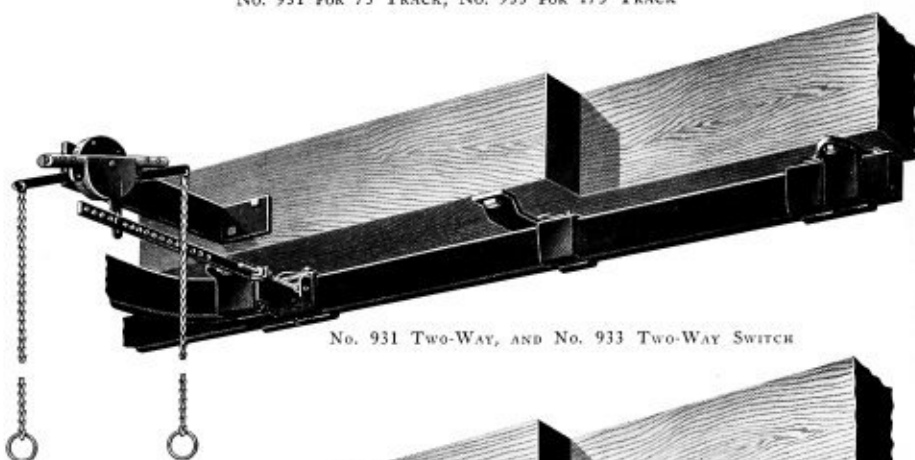


RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.

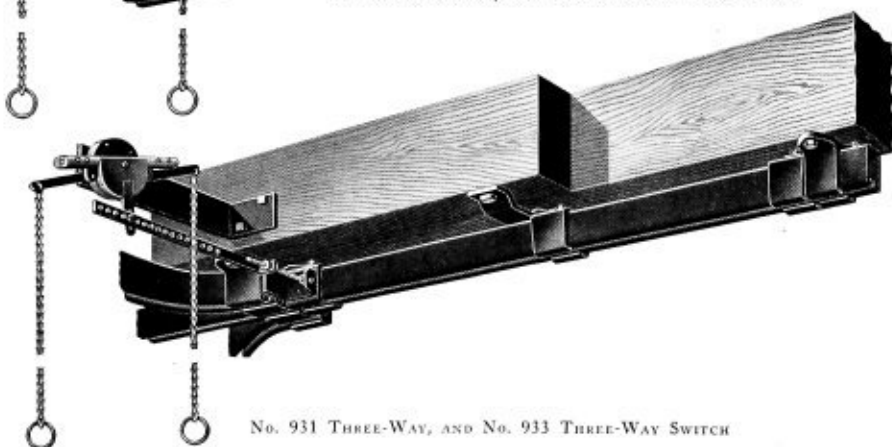


No. 931 and No. 933 R-W Trolley Overhead Switches

MADE IN TWO SIZES OF TRACK—EACH SIZE MADE TWO OR THREE-WAY
No. 931 FOR 75 TRACK, No. 933 FOR 175 TRACK



No. 931 TWO-WAY, AND No. 933 TWO-WAY SWITCH



No. 931 THREE-WAY, AND No. 933 THREE-WAY SWITCH

Cuts above show section of straight and curved track with two-way and three-way switch. Positive locking attachment. Finish, japan. Always specify on order if two or three-way is desired.

For Price List see opposite page. If a heavier type of switch is required specify "For No. 275 or No. 375 Track."

DETAIL OF PARTS

No. 931 TWO OR THREE-WAY, AND No. 933 TWO OR THREE-WAY SWITCHES



931 OR 933-11



931 OR 933-16



931 OR 933-17



931 OR 933-13



931 OR 933-14



933-20



931 OR 933-15



931 OR 933-12



931 OR 933-10



931 OR 933-18



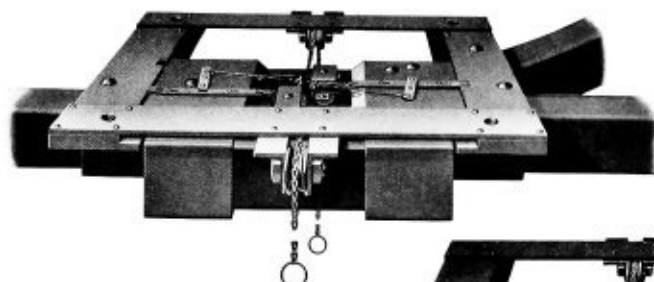
931 OR 933-19

NOTE—Always specify by number and state if for two or three-way switch.



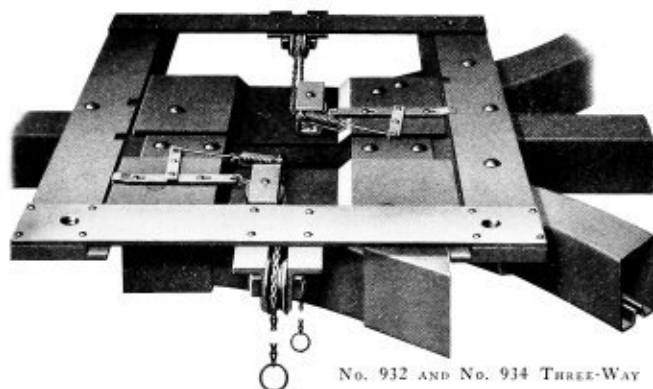
No. 932 and No. 934 R-W Trolley Overhead Sliding Stub Switches

MADE IN TWO SIZES OF TRACK—EACH SIZE MADE TWO OR THREE-WAY
No. 932 FOR 75 TRACK, No. 934 FOR 175 TRACK



No. 932 AND No. 934 TWO-WAY

Especially designed for use where space does not permit the regular type as shown on opposite page. Positive locking attachment. Finish, japan. For Price List see table below.



No. 932 AND No. 934 THREE-WAY

PRICE LIST

Number	Track No.	Length over all	Height over all Inches	Space Throw Requires above bottom of track, Inches	Weight Each Pounds	Price List Complete Each
No. 931—2 way	75	4 ft.	3½	11	53	\$13.00
No. 931—3 way	75	4 ft.	3½	11	58	20.00
No. 932—2 way	75	1 ft. 4 in.	3½	• • • • •	70	20.00
No. 932—3 way	75	1 ft. 4 in.	3½	• • • • •	100	30.00
No. 933—2 way	175	4 ft.	4½	11	75	16.00
No. 933—3 way	175	4 ft.	4½	11	83	24.00
No. 934—2 way	175	1 ft. 4 in.	4½	• • • • •	90	24.00
No. 934—3 way	175	1 ft. 4 in.	4½	• • • • •	120	36.00

PRICE LIST OF PARTS

Description	No.	Price, Each	No.	Price, Each
Pivot Bracket	931-10	\$1.00	933-10	\$2.00
Moving Bracket	931-11	1.00	933-11	2.00
Center Bracket	931-12	1.00	933-12	2.00
2-Way Switch Center Support	931-13	.60	933-13	1.00
3-Way Switch Center Support	931-14	.80	933-14	1.50
End Bracket	931-15	1.20	933-15	2.40
2-Way Switch Blind	931-16	.60	933-16	1.00
3-Way Switch Blind	931-17	.80	933-17	1.50
2-Way Head Bracket	931-18	2.00	933-18	3.00
3-Way Head Bracket	931-19	3.00	933-19	4.00
Dowel Screw			933-20	.30

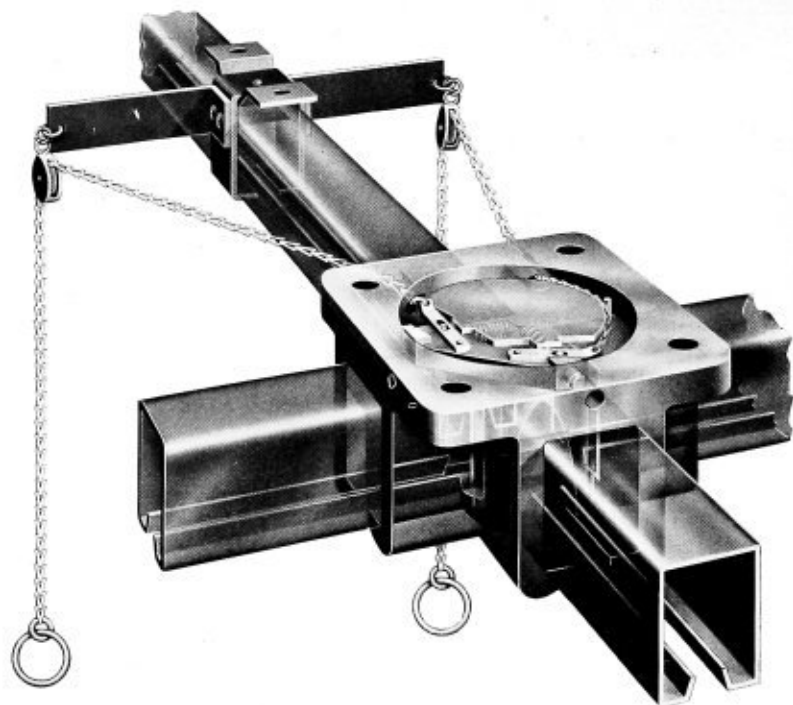
Discount.....

NOTE—Always specify by number and state if two or three-way switch is desired. On No. 932 and No. 934 two-way switches, state if right of left-hand (above cut shows a left-hand switch) is desired.



No. 935 and No. 936 R-W Trolley Overhead Cross-Over

MADE FOR TWO SIZES OF TRACK—No. 935 FOR 75 TRACK, No. 936 FOR 175 TRACK



The use of cross-over brackets is recommended as this is the proper method for tracks to cross one another at right angles. A continuous run of track insures easy operation of carrier under load. Positive lock closes track not in use. Made of heavy gray iron. Finish, japan. Furnished complete with chain for turning device.

PRICE LIST

Number	For Track No.	Height, inches	Weight, Pounds	Price List Complete Each
935	75	3½	35	\$24.00
936	175	4½	65	30.00

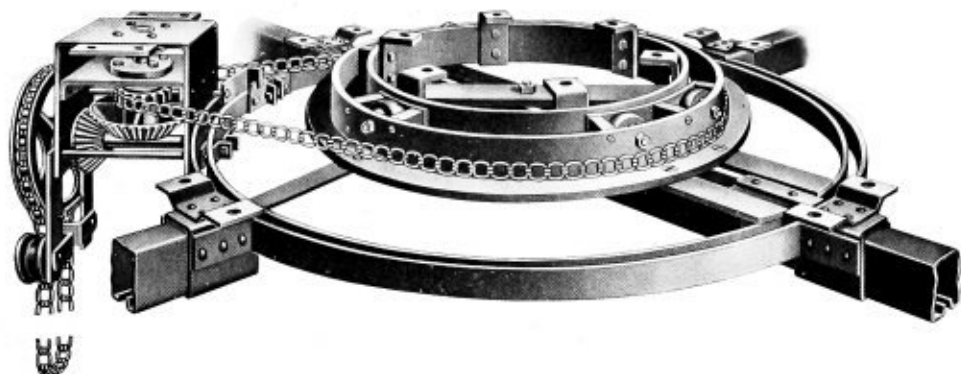
Discount.....

NOTE—Track shown in above illustration is not included in price of cross-over. Only made for tracks crossing at right angles.



No. 937 and No. 938 R-W Trolley Overhead Turn-Table

MADE FOR TWO SIZES OF TRACK AND THREE DIAMETERS
No. 937 FOR 75 TRACK, No. 938 FOR 175 TRACK



A Turn Table is one method of transferring from one track to another and can be used to advantage where limited space will not permit using switches. Positive lock holds table at any track desired. Finish, japan. Furnished complete, ready to erect.

No. and Diameter	For Track No.	Height over all, in.	Capacity, Pounds	Weight, Pounds	Price List, Each
937-12"	75	8	250	125	*\$ 70.00
937-21"	75	8	500	225	* 80.00
937-38"	75	8	1000	375	* 100.00
938-15"	175	9	750	175	* 80.00
938-27"	175	9	1500	275	* 90.00
938-50"	175	9	3000	450	* 110.00

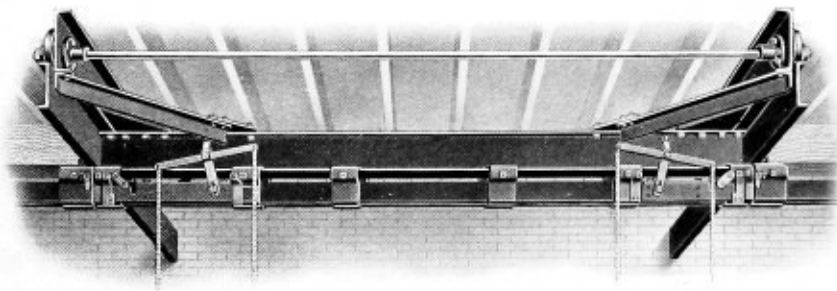
*Price list covers turn-tables with four openings for two runs of track.

Price on additional openings quoted on request.

NOTE—When ordering specify diameter, length of carrier used, weight of load to be handled and how many runs of track are to be served.

Discount.....

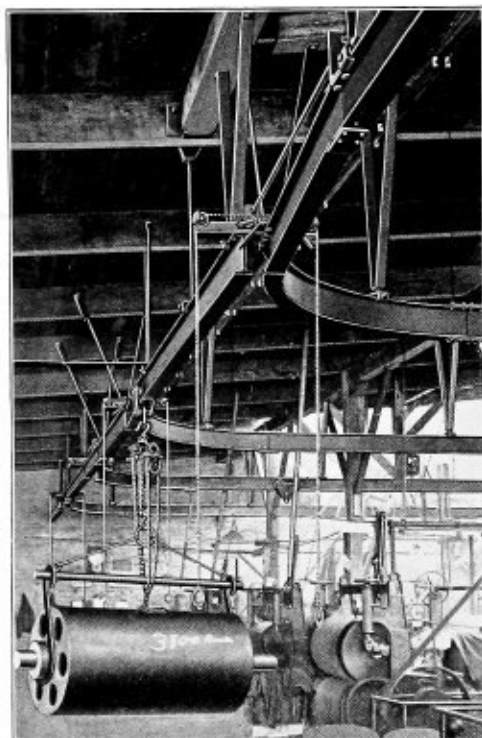
R-W Trolley Overhead Traveling Crane



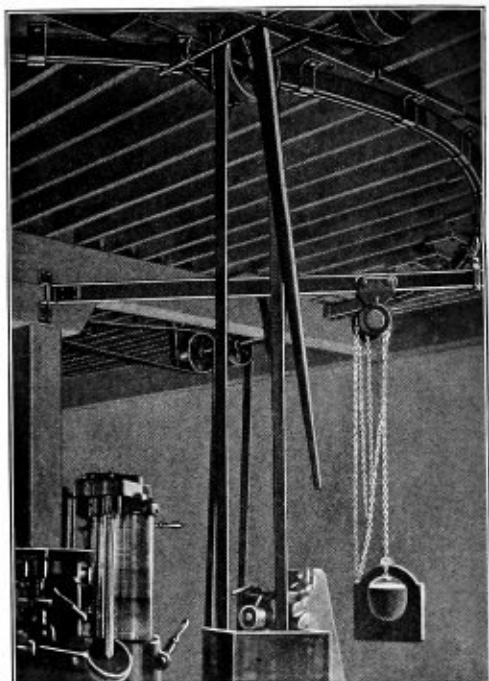
Especially designed for use where a traveling crane is desired in connection with overhead carrying system and conditions do not permit trolley track being erected in a certain area, but which must be reached. Loads can be transferred from either side and to any track desired. Prices quoted on application. Always send sketch showing lay-out, stating all details and dimensions.

R-W Standard I Beam Overhead Carrying Equipment

DESIGNED ESPECIALLY TO MEET THE DEMAND FOR AN OVERHEAD CARRYING SYSTEM TO HANDLE LOADS THAT ARE TOO HEAVY FOR THE R-W TROLLEY SYSTEM



OVERHEAD I-BEAM CARRYING SYSTEM INSTALLED IN THE MONROE BINDER BOARD FACTORY, AURORA, ILL., FOR HANDLING HEAVY ROLLS OF PAPER MACHINES. ONE MAN CAN NOW DO THE WORK OF HALF A DOZEN MEN AND IN ONE-TENTH THE TIME.



JIB CRANE SUPPORTED BY TROLLEY TRACK, INSTALLED IN THE SANDWICH MFG. CO.'S FACTORY, SANDWICH, ILL., FOR HANDLING HEAVY PIECES FROM ONE MACHINE TO ANOTHER. THIS JIB CRANE IS SERVING THREE MACHINES.

Will handle loads with ease up to four tons. With our adjustable device for supporting the I-Beams, two-thirds of cost of erection is saved. No holes are drilled in the I-Beam for attaching the brackets. Estimates for complete outfits furnished upon application.

INFORMATION REQUIRED

Always send sketch giving correct dimensions and proposed lay-out of tracks. State weight and size of maximum load, if for constant or occasional use and if track will be used for storage purposes. Send detail of overhead construction, so proper brackets will be furnished.

Erection—Any ordinary mechanic can erect same as we furnish BLUE PRINTS for erection and mark all material to correspond.



No. 900 R-W Standard I Beam Overhead Carrying Track

MADE REGULAR IN SIX SIZES



Standard, light I-Beams, 5 inches to 10 inches, and furnished in any length in one piece up to 48 feet. Each beam is carefully straightened and trued up, insuring a smooth surface for the trolleys to operate on. I-Beams are fitted for switches and painted.

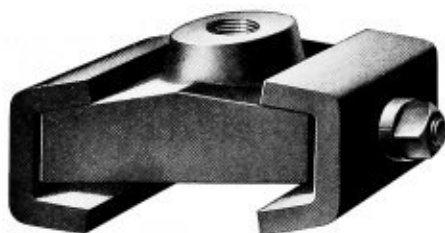
No. and Size of I Beam	Weight per foot Pounds	Capacity in Pounds	Maximum Distance Between Supports Feet	PRICE LIST	
				Price per Foot Including Joints	Extra for Bending Curves
900- 5"	9 $\frac{3}{4}$	1000	14	\$1.00	\$10.00
900- 6"	12 $\frac{1}{4}$	2000	13	1.20	12.00
900- 7"	15	3000	13	1.50	14.00
900- 8"	18	4000	13	1.80	16.00
900- 9"	21	6000	13	2.20	18.00
900-10"	25	8000	13	2.60	20.00

Discount.....

NOTE—See opposite page for directions for ordering.

No. 910 R-W Universal Clamp

MADE REGULAR IN SIX SIZES



The Universal Clamp is a new device for attaching supporting brackets to I-Beams. With this clamp it is not necessary to drill holes in I-Beams. Can be attached at any point.

No. and Size of I Beam	For Track Number	Weight Each Pounds	Price List Each
910- 5"	900- 5"	4	\$1.20
910- 6"	900- 6"	5	1.20
910- 7"	900- 7"	7	1.50
910- 8"	900- 8"	9	1.80
910- 9"	900- 9"	13	2.20
910-10"	900-10"	18	2.60

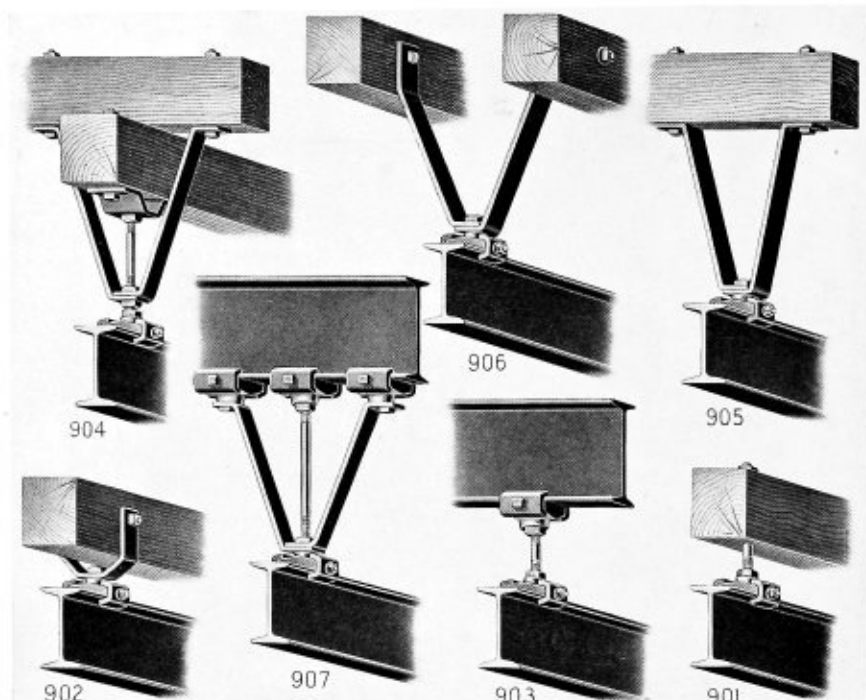
Discount.....

NOTE—Always specify by number and state size and weight of I-Beams. Unless otherwise specified, Clamps for Standard Light Sections will be sent.

Nos. 901 to 907

(INCLUSIVE)

R-W Standard I Beam Drop Brackets for Overhead Carrying Track



NOTE—Universal clamps shown in above illustrations are not included in price of brackets.

Drop brackets furnished to meet all conditions. Length of drop, weight of load and distance between brackets determines the size of stock used.

Bracket Number	Size I Beam Inches	DIAMETER OF ROD						PRICE LIST											
		For I Beams						12" Drop or less for I Beams						For each additional 12" add to list					
		5"	6"	7"	8"	9"	10"	5"	6"	7"	8"	9"	10"	5"	6"	7"	8"	9"	10"
901	5-6-7-8-9-10	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	\$.50	\$.60	\$.95	1.20	1.65	2.00	\$.10	\$.15	\$.25	\$.35	\$.40	\$.50
902	5-6-7-8-9-10	"	"	"	"	"	"	2.85	3.50	4.50	4.80	6.10	6.80	.50	.70	1.05	1.10	1.35	1.70
903	5-6-7-8-9-10	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	.50	.60	.95	1.20	1.65	2.00	.10	.15	.25	.35	.40	.50
904	5-6-7-8-9-10	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2.40	2.80	3.80	4.30	5.60	6.40	.40	.60	.95	1.05	1.30	1.60
905	5-6-7-8-9-10	"	"	"	"	"	"	2.85	3.50	4.50	4.80	6.10	6.80	.50	.70	1.05	1.10	1.35	1.70
906	5-6-7-8-9-10	"	"	"	"	"	"	2.85	3.50	4.50	4.80	6.10	6.80	.50	.70	1.05	1.10	1.35	1.70
907	5-6-7-8-9-10	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$1\frac{1}{8}$ "	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2.40	2.80	3.80	4.30	5.60	6.40	.40	.60	.95	1.05	1.30	1.60

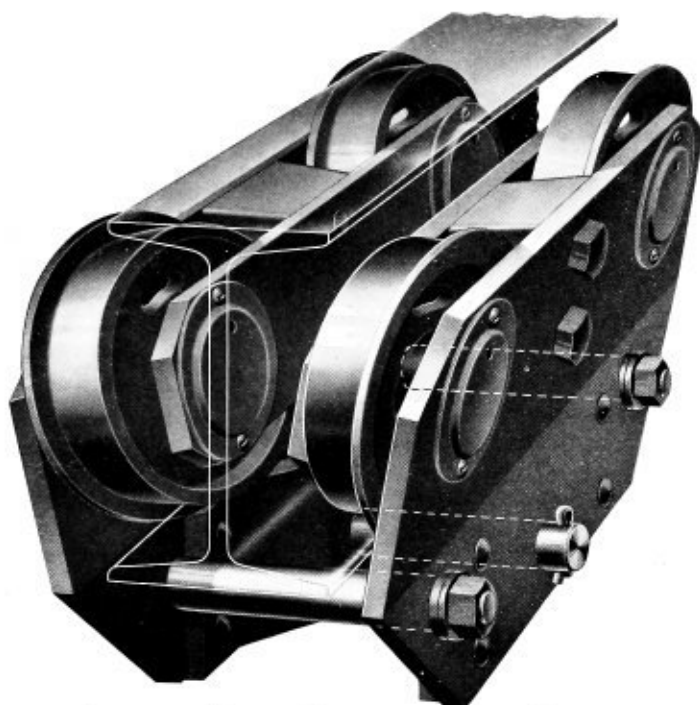
Diameter of rods given above are for loads specified on opposite page.

Discount.....

Directions for Ordering—Always specify by number, stating size and weight of I-Beam. Unless otherwise specified, brackets for Standard Light Sections will be sent. Send sketch showing dimensions of overhead structure and distance of drop required. Bolts or lag screws for attaching brackets are only furnished when specified. A moderate charge for same will be made.

No. 925 R-W Standard I Beam Trolleys

MADE IN SIX SIZES



DESIGNED FOR STRENGTH, DURABILITY AND EASE OF OPERATION

Construction, extra heavy. Wheels, gray iron and attached to independent axle, operating in two ball-bearings attached to frame. Load is evenly distributed on all four wheels. Finish, japan. The capacity specified below is figured to allow a liberal factor of safety.

No. and Size of I Beam	Capacity in Pounds	Diameter of Wheels on Thread Inches	Smallest Radius of Curve Inches	Diameter of Center Pin Inches	Distance Top of Center Pin to Bottom of Beam Inches	Width over all Inches	Weight Pounds	Price List Each
925- 5"	1000	3 $\frac{1}{2}$	21	3 $\frac{1}{4}$	1 $\frac{3}{4}$	6 $\frac{1}{2}$	30	\$25.00
925- 6"	2000	4 $\frac{1}{2}$	21	3 $\frac{1}{4}$	2 $\frac{1}{4}$	7 $\frac{1}{2}$	45	32.00
925- 7"	3000	5 $\frac{1}{2}$	34	1 $\frac{1}{4}$	2 $\frac{1}{2}$	8 $\frac{1}{2}$	85	40.00
925- 8"	4000	6 $\frac{1}{2}$	36	1 $\frac{1}{2}$	2 $\frac{7}{8}$	9 $\frac{1}{2}$	100	48.00
925- 9"	6000	7 $\frac{1}{2}$	42	1 $\frac{1}{2}$	3	10 $\frac{1}{2}$	165	64.00
925-10"	8000	8 $\frac{1}{2}$	48	1 $\frac{3}{4}$	3 $\frac{1}{8}$	11	205	80.00

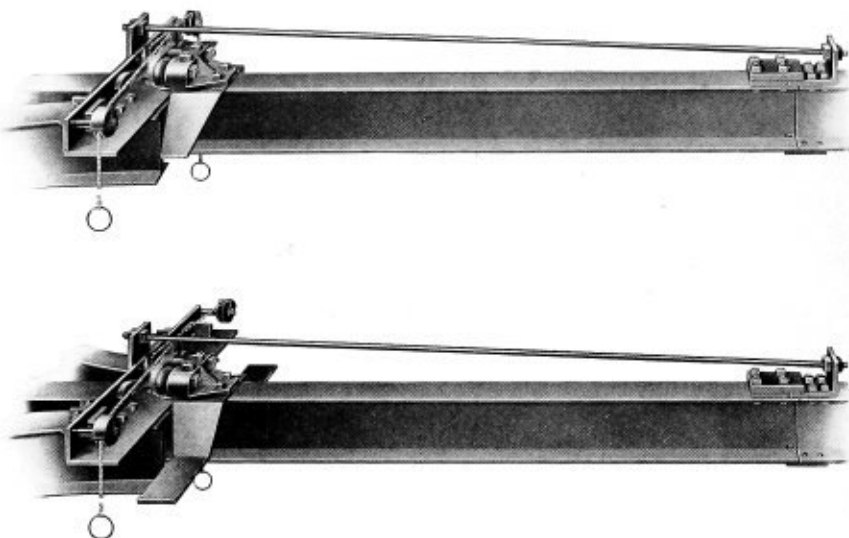
Discount.....

Directions for Ordering—Always specify by number, stating size and weight of I-Beam.



No. 911 R-W Standard I Beam Overhead Carrying Track Switches

MADE TWO OR THREE-WAY



Cuts show sections of curved and straight track with switches. Switches are equipped with positive safety stops to prevent trolley from running off open end of I-Beam track. Locking attachment holds switch in position at track desired. Operated by hand chains. Finish, japan.

Number and Size of I Beam	Length over all Feet	WEIGHT		PRICE LIST	
		Two-Way Pounds	Three-Way Pounds	Two-Way Each	Three-Way Each
911- 5'	6	140	150	\$ 50.00	\$ 65.00
911- 6'	6	160	170	55.00	75.00
911- 7'	6	180	190	60.00	85.00
911- 8'	6	220	230	75.00	105.00
911- 9'	6	245	255	100.00	135.00
911-10'	6	280	290	130.00	170.00

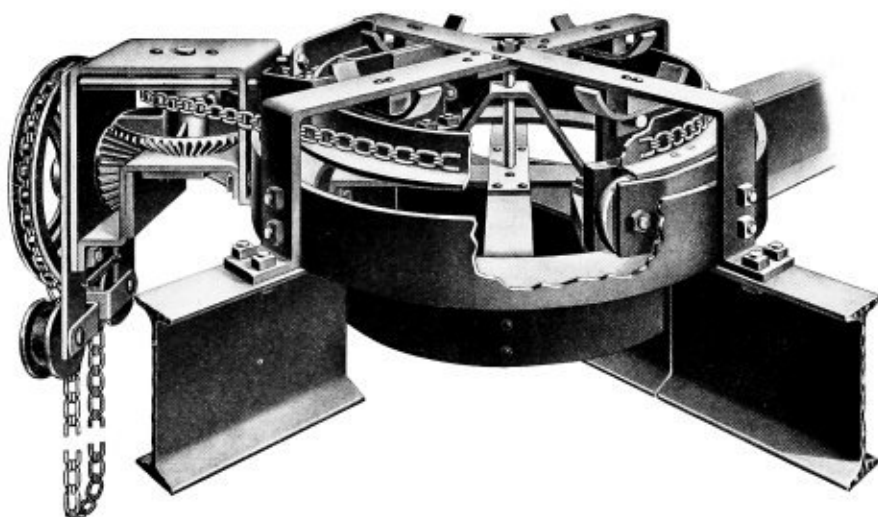
Discount.....

NOTE—Always specify by number, stating size and weight of I-Beam. Unless otherwise specified, switches for Standard Light Sections will be sent. State if two or three-way switch is desired. On two-way switches if right or left-hand, (cut above shows a left-hand switch).

No. 912

R-W Standard I Beam Overhead Carrying Track Turn-Tables

MADE IN TWO DIAMETERS



Turn-Tables are equipped with positive safety stops to prevent trolley from running off open ends of I-Beam track. Locking attachment holds Turn-Table in position at track desired. Operated by hand chains. Finish, japan.

Number and Size I Beam	PRICE LIST	
	24-inch Diameter	32-inch Diameter
912- 5 in.	*\$175.00	
912- 6 in.	* 200.00	
912- 7 in.	* 230.00	
912- 8 in.		*\$280.00
912- 9 in.		* 335.00
912-10 in.		* 390.00

Discount.....

NOTE—Always specify by number, stating size and weight of I-Beam. Unless otherwise specified, turn-tables for Standard Light Sections will be sent. Also state maximum weight of load carried.

*List price covers turn-tables with four openings for two runs of track. Price on additional opening, quoted on request.



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



R-W Standard I Beam Overhead Traveling Cranes

MADE TO MEET ALL CONDITIONS. WE WILL GLADLY SUBMIT PLANS AND PRICES



When it is necessary to reach any part of a certain area the Traveling Crane meets all requirements. Can be operated independently or with an Overhead I-Beam Carrying System.

The cross member of crane is a single I-Beam, supported at each end by a truck frame of channel iron. Construction of truck permits load being evenly distributed on all four wheels, which are connected with two squaring shafts. This insures uniform travel of both trucks and eliminates all tendency of binding. Cranes can be equipped with hand operated traveling mechanism. This device is not included unless specified and costs extra. Prices quoted on application.

Cranes are furnished to operate on channel track. Special brackets furnished to meet all conditions.

Size I Beam Cross member, in.	Weight I Beam per foot Pounds	Capacity in Pounds	Diameter Truck Wheels on Tread, in.	PRICE LIST—CRANE—(Hoist and Trolley Not Included) Per Span, in feet.						Size Channel Iron Inches	Weight per foot Pounds	Price List—Track	
				10 Ft.	12 Ft.	14 Ft.	16 Ft.	18 Ft.	20 Ft.			Joists for Track	Channel per foot
5	9½	500	5½	\$ 96.00	\$104.00	\$112.00	\$120.00	\$136.00	\$152.00	6	8	\$5.20	\$.80
6	12½	1000	6½	104.00	112.00	120.00	128.00	144.00	160.00	7	9½	6.80	.90
7	15	1500	6½	160.00	176.00	192.00	208.00	224.00	240.00	8	11½	7.60	1.00
8	18	2000	7½	184.00	200.00	216.00	232.00	248.00	264.00	9	13½	8.60	1.20
8	18	2500	7½	208.00	224.00	240.00	256.00	272.00	288.00	10	15	9.60	1.40
9	21	3000	8½	250.00	275.00	300.00	325.00	350.00	375.00	12	20½	11.60	1.90



R-W DROP BRACKET

R-W Drop and Side Brackets

FOR CHANNEL TRACK

Size Channel Inches	PRICE LIST		Side Bracket
	Drop up to 18"	Drop 18" to 25"	
6	\$ 9.00	\$12.00	\$4.50
7	10.00	14.00	5.00
8	12.00	17.00	6.00
9	13.50	18.50	7.00
10	15.00	20.00	8.00
12	18.00	24.00	9.00

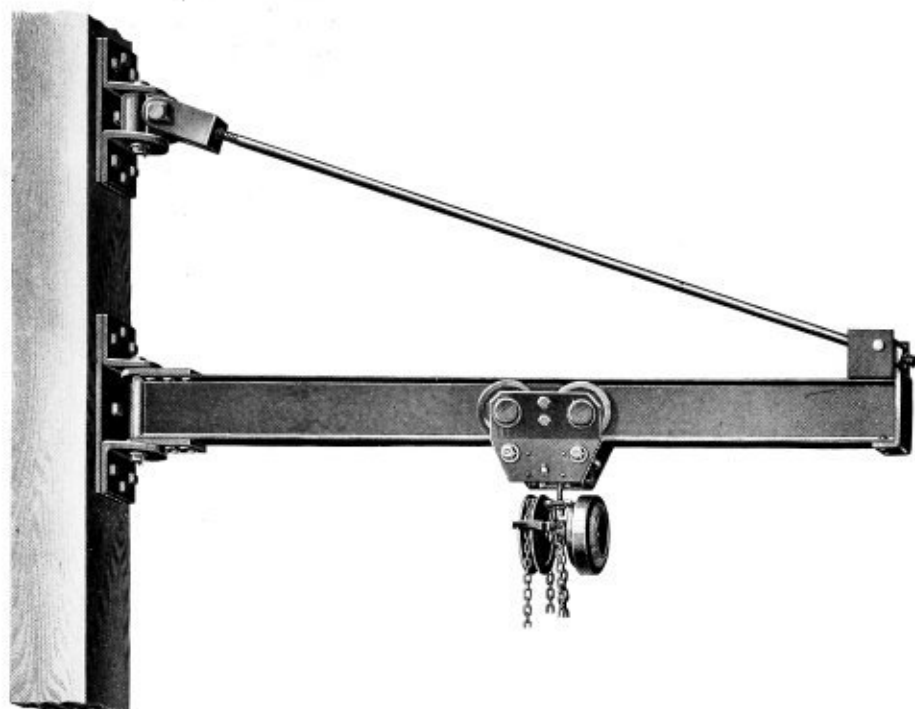
Discount.....



R-W SIDE BRACKET

Directions for Ordering—State the following: *First*—Size and weight of I-Beam. *Second*—Width of span. *Third*—Size and weight of channel iron. *Fourth*—Maximum weight of load to be handled. *Fifth*—If side or drop brackets; (on drop brackets state distance of drop). *Sixth*—Always send sketch, showing all dimensions. **NOTE**—Unless otherwise specified, traveling cranes will be furnished with Standard Light Section I-Beams.

R-W Standard I Beam Swinging Jib Cranes



Designed for handling loads within a radius up to 15 feet and 180 degrees.

The Jib Crane is one of the most economical methods of handling all kinds of loads within a small area.

Can be furnished with either Tie Rod, (as illustrated above), or a curved overhead trolley track support, (as illustrated on page 138).

Prices for Jib Crane with curved overhead trolley track support quoted on application.

PRICE LIST

JIB CRANES WITH TIE RODS LESS TROLLEYS AND HOISTS

Capacity in Pounds	Size I Beam Inches	Weight per Foot Pounds	Dimensions over all in Feet		Weight Pounds	Each
			Length	Height		
2000	6	12½	12'	5' 0"	400	\$60.00
2000	7	15	14'	5' 10"	440	65.00
2000	7	15	16'	6' 8"	480	70.00
2000	7	15	18'	7' 6"	510	75.00
4000	8	18	12'	5' 0"	500	65.00
4000	8	18	14'	5' 10"	575	70.00
4000	9	21	16'	6' 8"	700	75.00
4000	9	21	18'	7' 6"	750	85.00
6000	9	21	12'	5' 0"	600	70.00
6000	9	21	14'	5' 10"	650	75.00
6000	10	25	16'	6' 8"	775	85.00

Discount.....

NOTE—Above price list does not cover the trolley shown in illustration above. Trolleys for above are shown on page 137.



R-W Yale Hoists

YALE TRIPLEX BLOCK

FROM HOOK TO HOOK A LINE OF STEEL

This is the strongest, quickest, and easiest hoist, because:

1. Parts are few and simple.
2. Has the greatest overload capacity.
3. The one-ton block will stand a one-ton load dropped into the bottom hook from a height of 25 inches without breaking.
4. The working gears act as roller bearings.
5. Top to bottom hook the load is supported on steel.
6. It holds the load positively.
7. The steel gears are covered by a steel case.
8. The gear pressures are balanced.
9. There are no delicate bearings.
10. The load is hung from the center of the block.
11. Chain tested to three times its rated capacity.
12. The gears center around the one main shaft and a man by pulling 82 pounds can lift 2,000 pounds.

YALE DUPLEX BLOCK

Where the higher speed of the Yale Triplex Block is not required, the Yale Duplex Block is the one we recommend. It is especially adapted for portable use, being light, powerful, durable, and requiring the least head-room.

The Yale Duplex Block has an efficiency 25 per cent higher than ordinary screw hoists.

With it, one man by pulling only 87 pounds, can lift 2,000 pounds.

The peculiar advantage of this block is light weight and compactness in head-room, especially adapting it for setting machinery.

Capacity in Pounds	Regular Hoist in Feet	PRICE LIST				Minimum Distance Between Hooks	
		Triplex Complete	Duplex Complete	Extra Hoist*		Triplex Inches	Duplex Inches
				Triplex per Foot	Duplex per Foot		
1000	8	\$ 52.00	\$ 42.50	\$1.44	\$2.04	15	13
2000	8	72.00	51.00	1.52	2.55	17	16
3000	8	96.00	68.00	1.60	2.98	19½	19
4000	9	112.00	85.00	1.68	3.40	24	21
6000	10	144.00	127.50	2.40	3.74	32	25
8000	10	176.00	161.50	2.56	4.08	37	29
10000	12	224.00	238.00	3.44	5.10	45	31
12000	12	264.00	306.00	3.44	6.38	46	33
16000	12	320.00	357.00	4.32	6.80	51	36
20000	12	384.00	467.50	5.20	7.23	57	45

Discount.....

*"Extra Hoist Per Foot" includes sufficient hand and load chain to increase the travel of the lower hook one foot.

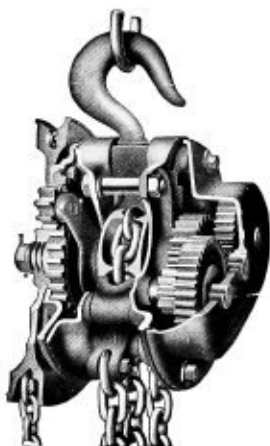


TRIPLEX BLOCK HOIST



DUPLEX BLOCK HOIST

R-W Peerless Spur-Gear Hoists



The Peerless Hoist is designed and built to give the most satisfactory service possible to all users. Its construction embodies the latest developments in practical chain hoist design, covering strength, light weight, ease of operation and protection against wear.

In many cases it is desirable to lift light loads at much faster speed than is attainable with the regular gearing. To accomplish this the "Quick Speed Peerless" is furnished with gears of a higher ratio. Since the pull on the hand chain is increased in direct ratio to the speed of the gearing it is advisable not to handle more than one-half the rated load for continuous lifting.



PRICES AND DATA ON PEERLESS HOISTS—REGULAR STYLE

Capacity in Pounds	Regular Lift in Feet	Price of Hoist Regular Lift	Price of Extra Lift, per Foot	Distance Between Hooks		Weight of Hoist (Regular Lift) in Pounds		Pull on Hand Chain to Lift Full Load in Pounds	Feet of Chain Handled to Lift Load One Foot	Number of Strands of Load Chain
				Shortest Inches	Reach (Reg. Lift)	Net	Gross (Boxed)			
500	8	\$45.00	\$1.28	13	9' 1"	48	65	50	14.0	1
1000	8	52.50	1.35	14	9' 2"	52	72	64	20.3	1
2000	8	67.50	1.43	16	9' 4"	80	100	81	31.5	1
3000	8	90.00	1.50	19	9' 7"	114	147	114	34.5	1
4000	9	105.00	1.58	22½	10' 10½"	158	202	124	40.5	1
6000	10	135.00	1.88	24	12' 0"	236	301	130	59.0	1
8000	10	165.00	2.40	29	12' 5"	328	392	128	81.0	2

QUICK SPEED

500	8	45.00	1.28	13	9' 1"	48	65	47.6*	7.5	1
1000	8	52.50	1.35	14	9' 2"	52	72	65.9*	10.0	1
2000	8	67.50	1.43	16	9' 4"	80	100	85.9*	16.8	1

*Pull is given to raise only one-half the rated load on Quick Speed.

Discount.....



R-W Fire Door Hardware

Where mentioned in the following pages that hardware is approved, same will be found included in the list of fire-door hardware examined under standard requirements of the National Board of Fire Underwriters, after exhaustive investigation by the Underwriters' Laboratories, (Inc.), and approved for use. These fixtures bear their label and are made in accordance with their rules governing the various types of standard equipment. We can also furnish hardware to meet special requirements, prices of which will be quoted on application.

DIRECTIONS FOR ORDERING

Sliding Door Fixtures—In ordering state:

First—Number of openings and number of doors; whether doors are on one side or both sides of wall. If latter, mention if fixtures can be bolted together and state thickness of wall. Do not say *doors* when you mean *openings*, as doors must lap four inches on each side and at top.

Second—Width and height of opening, (mention width first).

Third—Thickness of doors, if two-ply ($1\frac{3}{4}$ inches), or three-ply ($2\frac{5}{8}$ inches).

Fourth—Thickness of wall, when wall bolts are required, or when doors are used on both sides of wall, in which case special U wall plates are required for guide rollers.

Fifth—Distance from edge of opening to wall at right angles, if any, to provide for sufficient space for wall binders. State distances from highest points of openings to nearest obstructions overhead.

Sixth—If opening is square or arched top.

NOTE—Wall bolts are not furnished unless specified. List prices are based on width of openings, not doors. Necessary counterbalance weights are included in all sets.

Swinging Door Fixtures—In ordering state: (NOTE—Size of door is always required).

First—If doors or shutters are tin-clad of steel.

Second—Width of DOORS and height, if doors or shutters are single or double, and thickness, two-ply ($1\frac{3}{4}$ inches), or three-ply ($2\frac{5}{8}$ inches).

Third—Whether flush with wall or overlap, and if angle iron or rabbetted frames are used for flush doors. (See page 183 for different types of frames.)

Fourth—If opening is square or arched top.

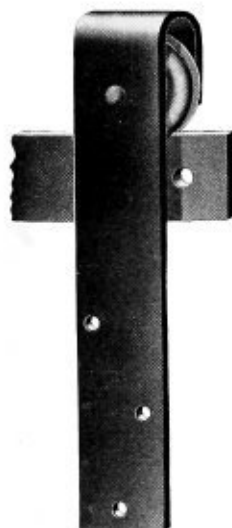
NOTE—Unless specified on order, fixtures complete with hinges, pintels and triple latches will be sent for three-ply ($2\frac{5}{8}$ -inch) doors, and two-ply ($1\frac{3}{4}$ -inch) shutters.

Vertical Sliding Door Fixtures—In ordering state:

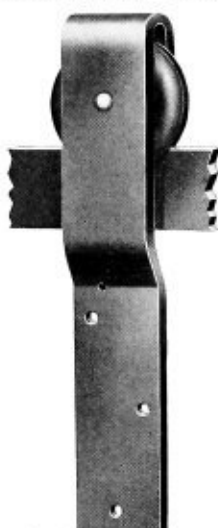
Information asked for under sliding door fixtures, first, second, third, fourth and sixth paragraphs. Always state amount of wall room on each side of opening.

NOTE—Counterbalance weights are not included in list prices of fixtures.

R-W Fire Door Hangers



No. 102, 2 5/8-INCH HANGER
Used with Nos. 102, 201, 204, 303
and 304 Fixtures



No. 301, 1 3/4-INCH HANGER
Used with No. 301 Fixtures



No. 202 ADJUSTABLE FLAT TRACK
HANGER—Used Where Adjust-
able Feature is Desired

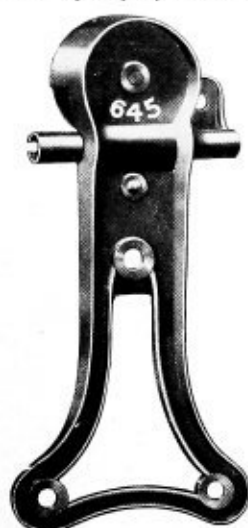
The hangers illustrated here are included in the list of Fire Door hardware examined under standard requirements of the National Board of Fire Underwriters, after exhaustive investigation by the Underwriters' Laboratories (Inc.), and approved for use. Wheels are malleable iron. Frames are steel or malleable iron and of heavy construction. Bearings, steel rollers. Finish, japan.

PRICE LIST

No. 102	Hangers, per pair.....	\$4.10	No. 542-C	(1 3/4-inch) Hangers, per pair.....	\$3.50
No. 202	Hangers, per pair.....	7.00	No. 645	Hangers, per pair.....	3.50
No. 301	Hangers, per pair.....	4.10	No. 642-5	Hangers, price quoted on application.	

Discount.....

NOTE—Specify by numbers, give thickness of door and number of fixtures for which desired.



No. 645, 2 5/4-INCH HANGER
Used with Nos. 645 and 646
Fixtures



No. 542-C, 1 3/4-INCH HANGER
WITH BACKING-OUT PLATE
Used With No. 601 Fixtures



No. 642-5 ADJUSTABLE ROUND TRACK
HANGER—Used Where Adjust-
able Feature is Desired



No. 102 R-W Monarch-A Fire Door Fixtures

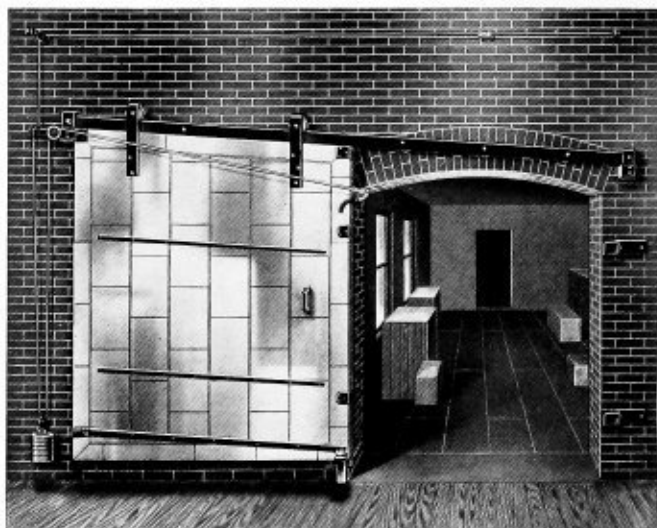
(WILCOX No. 501A)

TWO-LINK FIXTURES FOR THREE-PLY (2½-INCH) DOORS

Illustrated Flat Track Hardware included in list of Fire Door Hardware *approved and labeled* by National Board of Fire Underwriters.

We recommend No. 102 Fixtures where head-room exceeds 3 feet.

This arrangement of automatic device provides two fusible links—one constantly in opening and exposed from both sides, and one link near ceiling. If either link fuses, door is released and closes by gravity. If doors are used on both sides of wall, the cord can be made to pass through wall near ceiling at point where it is shown attached in illustration, and same arrangement continued on other side, thus providing four links. The fusing of any one releases both doors.



INSPECTED BY UNDERWRITERS' LABORATORIES, (INC.), UNDER DIRECTION OF THE
NATIONAL BOARD OF FIRE UNDERWRITERS

PRICE LIST

Price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counterbalance weights. Wall bolts are not included, but will be furnished at a moderate price if thickness of wall is given.

Width of Opening with 1 pt. Hangers	Price List	Weight per Set, Lbs.	Width of Opening with 1½ pt. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$19.00	170	6½ feet	\$23.70	250
3½ feet	19.40	178	7 feet	24.00	258
4 feet	19.70	187	7½ feet	24.30	266
4½ feet	20.00	195	8 feet	24.70	282
5 feet	20.30	205	8½ feet	25.00	288
5½ feet	20.70	215	9 feet	25.30	297
6 feet	21.00	225	9½ feet	25.70	305
			10 feet	26.00	315

No. 102 Fixtures only, per set, (less track and hangers).....\$12.00

No. 102-84 Track only, with brackets, weight 4½ pounds, per foot......40

No. 102 Hangers only, (Page 149), weight 30 pounds, per pair..... 4.10

No. 202 Adjustable Hangers only, (Page 149), weight 36 pounds, per pair..... 7.00

*For openings, (not doors), over 6 feet wide, Underwriters require three hangers.

Discount.....

Directions for Ordering—See Page 148, and give all dimensions asked for.

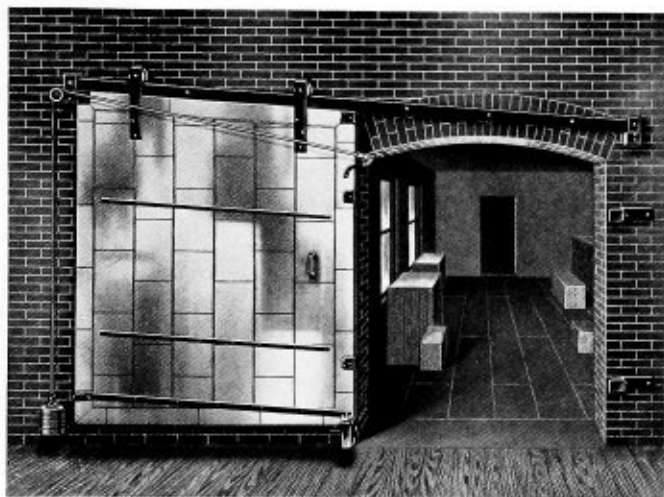
NOTE—Squire top opening requires 14 inches of head-room for non-adjustable hangers and 17 inches for adjustable hangers at edge of opening toward which the door slides in closing and ¾ inch more for each additional foot of track. Arched top opening requires 14 inches head-room above the top of arch and ¾ inch more for each foot the track extends beyond the center. Fixtures require 13½ inches of side wall room on side toward which door slides in closing and opposite side the width of opening plus 22 inches. To determine length of track, double width of opening and add 21 inches.

Detail of parts shown on Pages 152 and 153. See page 189 for Standard Approved and Labeled Tin-clad Fire Doors. Approved hardware, suitable for Saino doors, furnished when required.

No. 201 R-W Monarch Fire Door Fixtures

(WILCOX No. 502A)

ONE-LINK FIXTURE FOR THREE-PLY (2½-INCH) DOORS



INSPECTED BY UNDERWRITERS' LABORATORIES, (INC.), UNDER DIRECTION OF THE
NATIONAL BOARD OF FIRE UNDERWRITERS

Illustrates Flat Track Hardware included in list of Fire Door Hardware *approved and labeled* by National Board of Fire Underwriters.

This fixture is the same style as No. 102 shown on opposite page, except that the overhead cord arrangement is omitted. This type has but one fusible link which is exposed in the opening.

PRICE LIST

Price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled.

Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counterbalance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pr. Hangers	Price List	Weight per Set, Lbs.	* Width of Opening with 1½ pr. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$17.70	165	6½ feet	\$22.40	232
3½ feet	18.05	170	7 feet	22.70	238
4 feet	18.40	176	7½ feet	23.00	247
4½ feet	18.70	183	8 feet	23.40	258
5 feet	19.05	191	8½ feet	23.70	268
5½ feet	19.40	202	9 feet	24.00	276
6 feet	19.70	208	9½ feet	24.40	282
			10 feet	24.70	292

No. 201 Fixtures only, per set (less track and hangers).....\$10.70

No. 102-84 Track only, with brackets, weight 4½ pounds, per foot......40

No. 102 Hangers only, (Page 149), weight 30 pounds, per pair.....4.10

No. 202 Adjustable Hangers only, (Page 149), weight 36 pounds, per pair.....7.00

*For openings, (not doors), over 6 feet wide, Underwriters require three hangers.

Discount.....

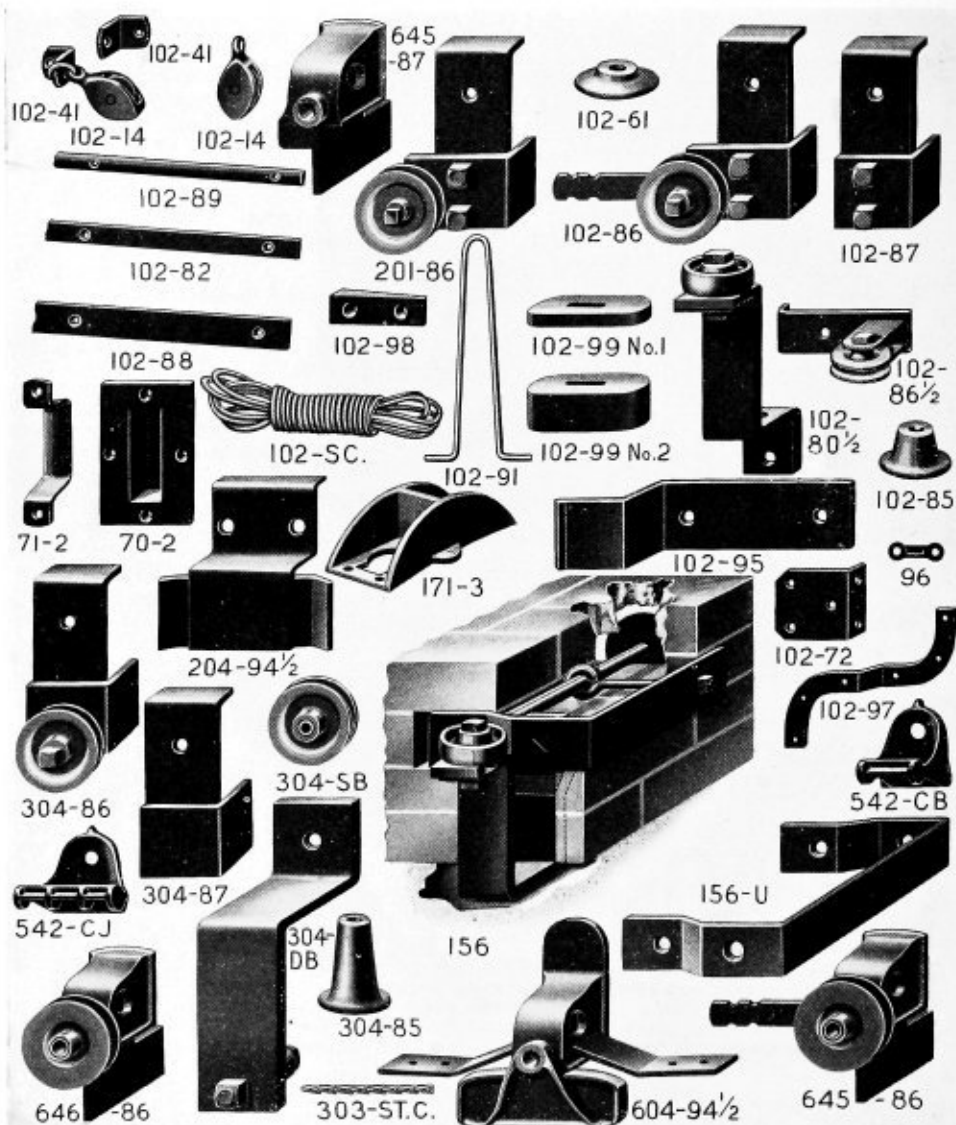
Directions for Ordering—See Page 148, and give all dimensions asked for.

NOTE—Square top opening requires 14 inches of head-room for non-adjustable hangers and 17 inches of head-room for adjustable hangers at edge of opening toward which the door slides in closing, and ¾ inch more for each additional foot the track extends beyond the center. Fixtures require 13½ inches of side-wall room on side toward which door slides in closing and opposite side the width of opening, plus 19 inches.

Detail of parts shown on Pages 152, 153. See Page 189 for Standard Approved and Labeled Tin-clad Fire Doors. Approved hardware, suitable for Saino doors, furnished when required.

Detail of Parts for Sliding Fire Door Fixtures

USED WITH NOS. 102, 201, 204, 301, 303, 304, 601, 604, 645 AND 646



NOTE—For description and prices see opposite page.

The above hardware included in the list of Fire Dood Hardware examined under standard requirements of the National Board of Fire Underwriters, after exhaustive investigation by the Underwriters' Laboratories, (Inc.), and approved for use.



Price List

DETAIL OF PARTS FOR SLIDING FIRE DOOR FIXTURES, ILLUSTRATED ON OPPOSITE PAGE

No.	DESCRIPTION—PART NO. 1	PRICE LIST
70-2	Flush Door Pull, each.....	\$.25
71-2	Steel Handle to match No. 70-2, each.....	.15
96	Fusible Link, each.....	.30
102-14	Cord Pulley, each.....	.25
102-14	Assembled with No. 102-41 Rope Angle, each.....	.40
102-61	Cast Washer for wall bolts, each.....	.15
102-41	Rope Angle, each.....	.15
102-72	Steel Bumper Shoes, for three-ply (2½-inch) Doors, each.....	.10
102-80½	Guide Roller for Angle Iron Frames, each.....	2.00
102-82	Flat Strips for front of door, each.....	.40
102-84	Track, 3½ x ½-inch, per foot, (including cone brackets).....	.40
102-85	Cone Bracket, for three-ply (2½-inch) Doors, each.....	.20
102-86	Rope Pulley and back stop with trigger (to attach to track), each.....	1.70
102-86½	Cord Pulley and Frame, (for doors on both sides of wall), each.....	1.00
102-87	Front Door Stop, (to attach to track), each.....	1.00
102-88	Guide Roller Strip, each.....	.80
102-89	Half-oval Chafe Strips, each.....	.40
102-91	Weight Holder, each.....	.15
102-95	Wall Binder for three-ply (2½-inch) Doors, each.....	.80
102-97	Link Bracket, each.....	.25
102-98	Cast Wedge, each.....	.10
102-99 No. 1	Light Weight, 3 pounds, each.....	.25
102-99 No. 2	Heavy Weight, 9 pounds, each.....	.75
102 SC	No. 7 Sash Cord, per foot.....	.05
107	Expansion Bolt, ½ x 3 inches, each.....	.20
156	Guide Roller, for three-ply (2½-inch) Doors, each.....	2.00
156½	Guide Roller, for two-ply (1½-inch) Doors, each.....	2.00
156 U	U-Plate for Guide Roller, (used with doors on both sides of wall, for walls under 17 inches thick), each.....	1.50
171-3	Double Floor Stop for three-ply (2½-inch) Doors, each.....	.50
201-86	Rope Pulley and back-stop, (to attach to track), each.....	1.50
204-94½	Double Center Stop, with double washer, each.....	1.75
301-72	Steel Bumper Shoes, for two-ply (1½-inch) Doors, (See illustration No. 102-72), each.....	.10
301-95	Wall Binder for two-ply (1½-inch) Doors, (See illustration No. 102-95), each.....	.80
303 STC	Steel Chain, (for closing weights), per foot.....	.10
304-85	High Cone Bracket, each.....	.30
304-86	Rope Pulley and back-stop, (to attach to track), each.....	1.50
304-87	Front Door Stop, (to attach to track), each.....	1.00
304 DB	Drop Brackets, (for track), each.....	1.25
304 SB	Sheave and Bushing, (for closing weights), each.....	.70

Discount.....

PART NO. 2

542-CB	Center Bracket for three-ply (2½-inch) Doors, each.....	.16
542-CJ	Joint Bracket, (for track joints), each.....	.30
542-C TK	Round Track, per foot, (including brackets).....	.30
601-CB	Center Bracket for two-ply (1½-inch) Doors, (See illustration No. 542CB), each.....	.16
601-86	End Bracket, rope pulley and bumper, each.....	1.50
601-87	Front End Bracket and Bumper, each.....	1.10
604-94½	Double Center Stop, each.....	1.75
645-86	End Bracket, rope pulley and bumper with trigger, each.....	1.70
645-87	Front End Bracket and Bumper, each.....	1.10
646-86	End Bracket, rope pulley and bumper, each.....	1.50

NOTE—Always specify by number.

Discount.....



Wall Bolt List

SHOWING NUMBER OF WALL BOLTS REQUIRED TO ERECT FIXTURES COMPLETE

FOR NOS. 102-201 AND 301 FIXTURES						FOR NOS. 601-645 AND 646 FIXTURES					
Total Number of Bolts	TRACK BOLTS		Binder Bolts	Guide Roller Bolts	Size of Opening	Total Number of Bolts	TRACK BOLTS			Binder Bolts	Guide Roller Bolts
	Intermediate	End					Front	Intermediate	Rear		
10	3	2	4	1	3 ft.	11	1	4	1	4	1
10	3	2	4	1	3 ft., 3 in.	12	1	5	1	4	1
10	3	2	4	1	3 ft., 6 in.	12	1	5	1	4	1
10	3	2	4	1	3 ft., 9 in.	12	1	5	1	4	1
10	3	2	4	1	4 ft.	12	1	5	1	4	1
10	3	2	4	1	4 ft., 3 in.	12	1	5	1	4	1
10	3	2	4	1	4 ft., 6 in.	12	1	5	1	4	1
11	4	2	4	1	4 ft., 9 in.	12	1	5	1	4	1
11	4	2	4	1	5 ft.	13	1	6	1	4	1
12	5	2	4	1	5 ft., 3 in.	13	1	6	1	4	1
12	5	2	4	1	5 ft., 6 in.	13	1	6	1	4	1
12	5	2	4	1	5 ft., 9 in.	13	1	6	1	4	1
12	5	2	4	1	6 ft.	13	1	6	1	4	1
12	5	2	4	1	6 ft., 3 in.	15	1	8	1	4	1
12	5	2	4	1	6 ft., 6 in.	15	1	8	1	4	1
12	5	2	4	1	6 ft., 9 in.	15	1	8	1	4	1
12	5	2	4	1	7 ft.	15	1	8	1	4	1
12	5	2	4	1	7 ft., 3 in.	16	1	9	1	4	1
12	5	2	4	1	7 ft., 6 in.	16	1	9	1	4	1
14	7	2	4	1	7 ft., 9 in.	16	1	9	1	4	1
14	7	2	4	1	8 ft.	16	1	9	1	4	1
14	7	2	4	1	8 ft., 3 in.	16	1	9	1	4	1
14	7	2	4	1	8 ft., 6 in.	16	1	9	1	4	1
15	8	2	4	1	8 ft., 9 in.	16	1	9	1	4	1
15	8	2	4	1	9 ft.	16	1	9	1	4	1

Up to 11-Foot Opening Same as 9-Foot Opening

Openings 9 Feet 3 Inches to 11 Feet Require 10 Bolts for Intermediate Track Brackets.

For Fixtures on One Side of Wall—Estimate two end track bolts 4 inches longer than thickness of wall and intermediate track bolts 4 inches longer than thickness of wall; binder bolts thickness of wall plus 2 inches and guide roller bolt, thickness of wall plus 1 inch.

For Fixtures on Both Sides of Wall—Estimate as follows: For track, two end bolts 6 inches longer than thickness of wall and intermediate bolts 5 inches longer than thickness of wall. For binders, all bolts 2 inches longer than thickness of wall. For guide roller, bolts same length as thickness of wall.

For Hardware Used on One Side of Wall—Front track bolt should be 6 inches longer than thickness of wall; No. 601 only, 5 inches. Rear track bolt 7 inches longer than thickness of wall; No. 601 only, 6 inches. Intermediate track bolts and binder bolts 2 inches longer than thickness of wall. Guide roller bolt 1 inch longer than thickness of wall.

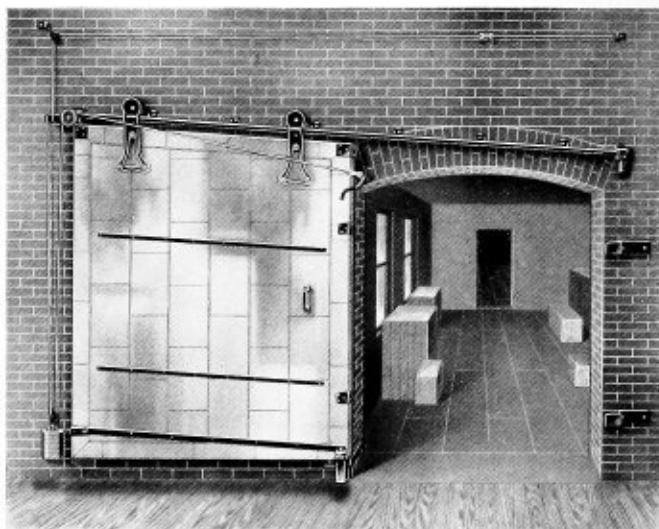
When Hardware is Used on Both Sides of Wall—The front track bolt should be 9 inches longer than thickness of wall; No. 601 only, 8 inches. Rear track bolt 12 inches longer than thickness of wall; No. 601 only, 11 inches. Intermediate track bolts and binder bolts 2 inches longer than thickness of wall. Guide roller bolt same thickness as wall.

No. 645 R-W Round Track Fire Door Fixtures

(WILCOX No. 645)

TWO-LINK FIXTURE FOR THREE-PLY (2½-INCH) DOORS

Illustrates Round Track Hardware included in list of Fire Door Hardware *approved and labeled* by National Board of Fire Underwriters. For use where head-room exceeds 3 feet. This arrangement of automatic device provides two fusible links—one constantly in opening and exposed from both sides, and one link near ceiling. If either link fuses, door is released and closes by gravity. If doors are used on both sides of wall, the cord can be made to pass through wall near ceiling at points where it is shown attached in illustration, and same arrangement continued on other side, thus providing four links. The fusing of any one releases both doors.



INSPECTED BY UNDERWRITERS' LABORATORIES, (INC.), UNDER DIRECTION OF THE
NATIONAL BOARD OF FIRE UNDERWRITERS

PRICE LIST

Price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counter balance weights.

Wall bolts are not included but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pr. Hangers	Price List	Weight per Set, Lbs.	* Width of Opening with 1½ pr. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$14.30	147	6½ feet	\$17.80	203
3½ feet	14.55	154	7 feet	18.05	210
4 feet	14.80	160	7½ feet	18.30	217
4½ feet	15.05	167	8 feet	18.55	223
5 feet	15.30	175	8½ feet	18.80	229
5½ feet	15.55	181	9 feet	19.05	236
6 feet	15.80	185	9½ feet	19.30	242
			10 feet	19.55	250

No. 645 Fixtures only, per set, (less track and hangers).....\$9.00

No. 542-C Track only, with brackets, weight 2½ pounds, per foot......25

No. 645 Hangers only, (Page 149), weight 20 pounds, per pair..... 3.50

*For openings, (not doors), over 6 feet wide, Underwriters require three hangers.

Discount.....

Directions for Ordering—See Page 148, and give all *dimensions* asked for.

NOTE—Square top opening requires 12 inches of head-room for non-adjustable hangers at edge of opening toward which the door slides in closing and ¾ inch more for each additional foot of track. Arched top opening requires 12 inches head-room above the top of arch and ¾ inch more for each foot the track extends beyond the center. Fixtures require 13½ inches of side-wall room on side toward which door slides in closing and opposite side the width of opening plus 18 inches. To determine length of track, double width of opening and add 15½ inches.

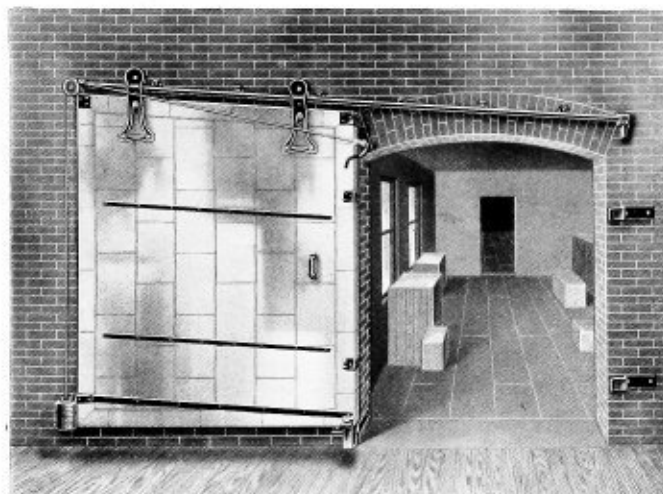
Detail of Parts—With the exception of Malleable hangers, brackets, front and back door stops, (to attach to track), and round track, the balance of these fixtures are the same as No. 102. See pages 152, 153. See Page 189 for Standard Approved and Labeled Tin-Clad Fire Doors. Approved hardware suitable for Saino doors furnished when required.



No. 646 R-W Round Track Fire Door Fixtures

(WILCOX No. 646)

ONE-LINK FIXTURE FOR THREE-PLY (2½-INCH) DOORS



INSPECTED BY UNDERWRITERS' LABORATORIES, (INC.), UNDER DIRECTION OF THE
NATIONAL BOARD OF FIRE UNDERWRITERS

Illustrates Round Track Hardware included in list of Fire Door Hardware *approved and labeled* by National Board of Fire Underwriters.

This fixture is the same style as No. 645 shown on opposite page, except that the overhead cord arrangement is omitted. This type has but one fusible link which is exposed in the opening.

PRICE LIST

Price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required

and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counterbalance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pr. Hangers	Price List	Weight per Set, Lbs.	Width of Opening with 1½ pr. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$13.30	142	6½ feet	\$16.80	185
3½ feet	13.55	149	7 feet	17.05	191
4 feet	13.80	152	7½ feet	17.30	197
4½ feet	14.05	155	8 feet	17.55	201
5 feet	14.30	160	8½ feet	17.80	204
5½ feet	14.55	164	9 feet	18.05	210
6 feet	14.80	170	9½ feet	18.30	214
			10 feet	18.55	218

No. 646 Fixtures only, per set (less track and hangers).....\$8.00

No. 542-C Track only, with brackets, weight 2½ pounds, per foot......25

No. 645 Hangers only, (Page 149), weight 20 pounds, per pair.....3.50

*For openings, (not doors), over 6 feet wide, Underwriters require three hangers.

Discount.....

Directions for Ordering—See Page 148, and give all dimensions asked for.

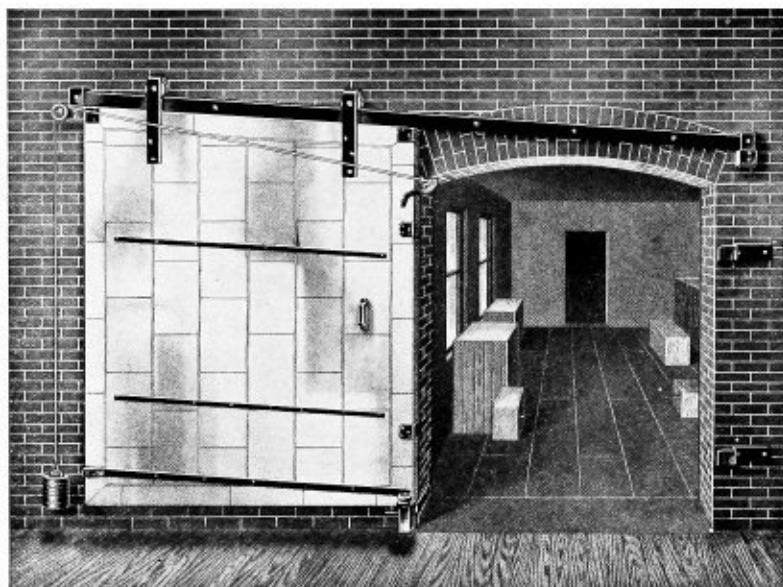
NOTE—Square top opening requires 12 inches of head-room for non-adjustable hangers at edge of opening toward which the door slides in closing and ¾ inch more for each additional foot of track. Arched top opening requires 12 inches head-room above the top of arch and ¾ inch more for each foot the track extends beyond the center. Fixtures require 13½ inches of side-wall room on side toward which door slides in closing and opposite side the width of opening plus 15 inches. To determine length of track, double width of opening and add 15½ inches.

Detail of Parts—With the exception of Malleable hangers, brackets front and back door stops, (to attach to track), and round track, the balance of these fixtures are the same as No. 201. See Pages 152, 153. See page 189 for Standard Approved and Labeled Tin-clad Fire Doors. Approved hardware, suitable for Saino doors, furnished when required.



No. 301—R-W Monarch Fire Door Fixtures

ONE-LINK FIXTURE FOR TWO-PLY (1½-INCH) DOORS



INSPECTED BY UNDERWRITERS' LABORATORIES, (INC.), UNDER DIRECTION OF THE NATIONAL BOARD OF FIRE UNDERWRITERS

Illustrates Flat Track Hardware included in list of Fire Door Hardware *approved and labeled* by National Board of Fire Underwriters.

This fixture is the same style as No. 201 shown on page 151, except that it is for two-ply (1½-inch) doors. This type has but one fusible link which is exposed in the opening.

PRICE LIST

Price list includes hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cash washers for wall bolts and necessary counter balance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pt. Hangers	Price List	Weight per Set, Lbs.	* Width of Opening with 1½ pt. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$17.70	165	6½ feet	\$22.40	232
3½ feet	18.05	170	7 feet	22.70	238
4 feet	18.40	176	7½ feet	23.00	247
4½ feet	18.70	183	8 feet	23.40	258
5 feet	19.05	191	8½ feet	23.70	268
5½ feet	19.40	202	9 feet	24.00	276
6 feet	19.70	208	9½ feet	24.40	282
			10 feet	24.70	292

No. 301 Fixtures only, per set (less track and hangers).....\$10.70

No. 102-84 Track only, with brackets, weight 4½ pounds, per foot......40

No. 301 Hangers only, (Page 149), weight 30 pounds, per pair..... 4.10

No. 202 Adjustable Hangers only, weight 36 pounds, per pair..... 7.00

*For openings, (not doors), over 6 feet wide, Underwriters require three hangers.

Directions for Ordering—See Page 148, and give all dimensions asked for.

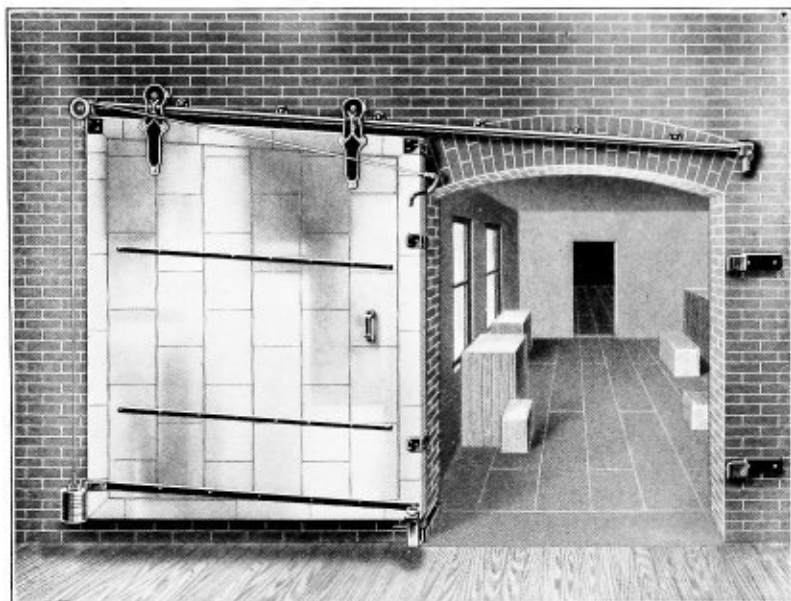
Discount.....

NOTE—Dimensions of head-room and side-wall room required on this fixture are the same as No. 201, illustrated on Page 151.

Detail of parts shown on Pages 152, 153. See Page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

**No. 601—R-W Round Track Fire Door Fixtures**

ONE-LINK FIXTURE FOR TWO-PLY (1½-INCH) DOORS



INSPECTED BY UNDERWRITERS' LABORATORIES, (INC.), UNDER DIRECTION OF THE NATIONAL BOARD OF FIRE UNDERWRITERS

Illustrates Round Track Hardware included in list of Fire Door Hardware *approved and labeled* by National Board of Fire Underwriters.

This fixture is the same style as No. 646 shown on page 157, except that it is for two-ply (1½-inch) doors. This type has but one fusible link which is exposed in the opening.

PRICE LIST

Price list includes hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counterbalance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pr. Hangers	Price List	Weight per Set, Lbs.	* Width of Opening with 1½ pr. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$13.30	142	6½ feet	\$16.80	185
3½ feet	13.55	149	7 feet	17.05	191
4 feet	13.80	152	7½ feet	17.30	197
4½ feet	14.05	155	8 feet	17.55	201
5 feet	14.30	160	8½ feet	17.80	204
5½ feet	14.55	164	9 feet	18.05	210
6 feet	14.80	170	9½ feet	18.30	214
			10 feet	18.55	218

No. 601 Fixtures only, per set (less track and hangers).....\$8.00

No. 542-C Track only, with brackets, weight 2½ pounds, per foot..... .25

No. 542-C Hangers only, with backing plate, (Page 149), weight 22 pounds, per pair..... 3.50

*For openings, (not doors), over 6 feet wide, Underwriters require three hangers.

Discount.....

Directions for Ordering—See Page 148, and give all dimensions asked for.

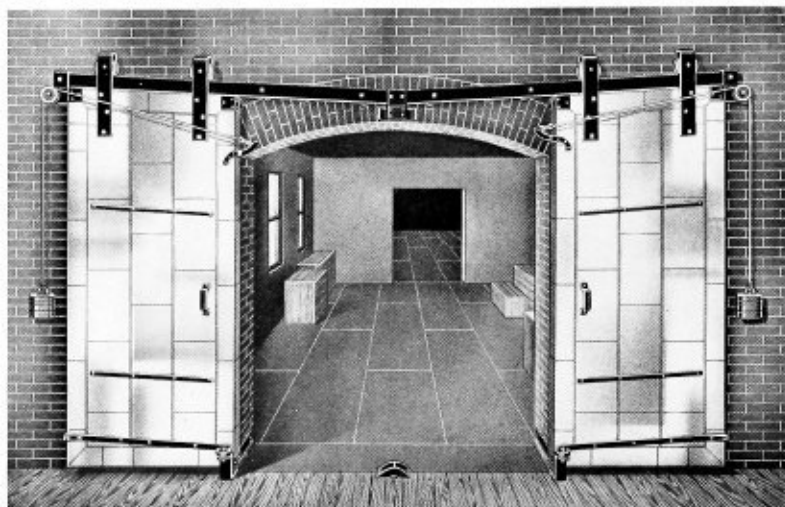
Note—Dimensions of head-room and side-wall room required on this fixture same as No. 646, on Page 157.

Detail of Parts—With the exception of Malleable hangers, brackets, front and back door stops, (to attach to track), and round track, the balance of these fixtures are the same as No. 201. See pages 152, 153. See Page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

No. 204 R-W Fire Door Fixtures for Double Doors

(WILCOX No. 204½)

FIXTURES FOR THREE-PLY (2½-INCH) OR TWO-PLY (1¾-INCH) DOORS
HARDWARE SAME STYLE AS NO. 201 MONARCH



This fixture is the same as No. 201, except that it is applied to double doors.

Designed to meet special conditions, such as not sufficient pocket room on one side to slide a large door, or if an overhead carrier system track passes through the opening.

Made regularly for three-ply (2½-inch) doors, but can be furnished for two-ply (1¾-inch) doors on application.

This type has one fusible link on each door and both are exposed in the opening.

PRICE LIST

The following price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counter balance weights.

Wall bolts not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 2 pt. Hangers	Price List	Weight per Set, Lbs.	Width of Opening with 2 pt. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$31.40	230	7 feet	\$37.40	292
3½ feet	32.10	235	7½ feet	38.10	297
4 feet	32.80	241	8 feet	38.80	303
4½ feet	33.50	258	8½ feet	39.50	308
5 feet	34.20	264	9 feet	40.20	326
5½ feet	34.90	269	9½ feet	40.90	331
6 feet	35.60	275	10 feet	41.60	337
6½ feet	36.70	286			

No. 204 Double Fixtures only, per set (less track and hangers).....	\$17.50
No. 204-84 Track only, with brackets, weight 4½ pounds, per foot.....	.40
No. 102 Hangers only, (Page 149), weight 30 pounds, per pair.....	4.10
No. 202 Adjustable Hangers only, (Page 149), weight 36 pounds, per pair.....	7.00

Discount.....

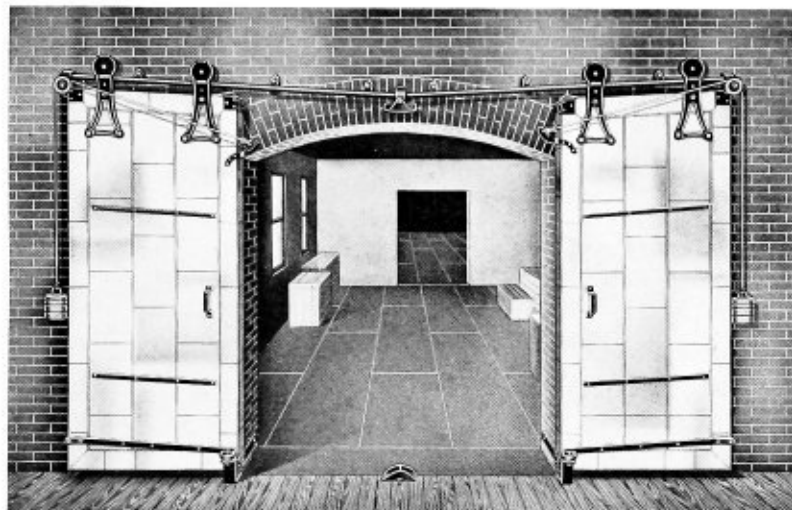
Directions for Ordering—See Page 148, and give all dimensions asked for.

NOTE—Dimensions of head-room and side-wall room required on this fixture are the same as No. 201, illustrated on Page 151. To determine length of track for each door, add 8 inches to actual width of opening. Detail of parts shown on Pages 152, 153. See Page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

No. 604

R-W Round Track Fire Door Fixtures for Double Doors

FIXTURES FOR THREE-PLY (2½-INCH) DOORS
HARDWARE SAME AS STYLE NO. 646



This fixture is the same as No. 204, illustrated on opposite page, except that it operates on round track. Made regularly for three-ply (2½-inch) Doors, but can be furnished for two-ply (1½-inch) Doors on application.

This type has one fusible link on each door and both are exposed in the opening.

PRICE LIST

The following price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counter-balance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 2 ps. Hangers	Price List	Weight per Set, Lbs.	Width of Opening with 2 ps. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$23.55	195	7 feet	\$28.05	242
3½ feet	24.10	198	7½ feet	28.60	255
4 feet	24.60	206	8 feet	29.10	257
4½ feet	25.10	209	8½ feet	29.60	266
5 feet	25.65	216	9 feet	30.15	268
5½ feet	26.15	220	9½ feet	30.65	280
6 feet	26.70	224	10 feet	31.20	282
6½ feet	27.50	240			

No. 604 Double Fixtures only, per set, (less track and hangers).....\$14.00
No. 542C Track only, with brackets, weight 2½ pounds, per foot......25
No. 645 Hangers only, (Page 149), weight 20 pounds, per pair..... 3.50

Discount.....

Directions for Ordering—See Page 148, and give all dimensions asked for.

NOTE—Dimensions of head-room and side-wall room required on this fixture are the same as No. 646, illustrated on page 157.

To determine length of track for each door, add 7 inches to actual width of opening.

Detail of parts shown on pages 152, 153.

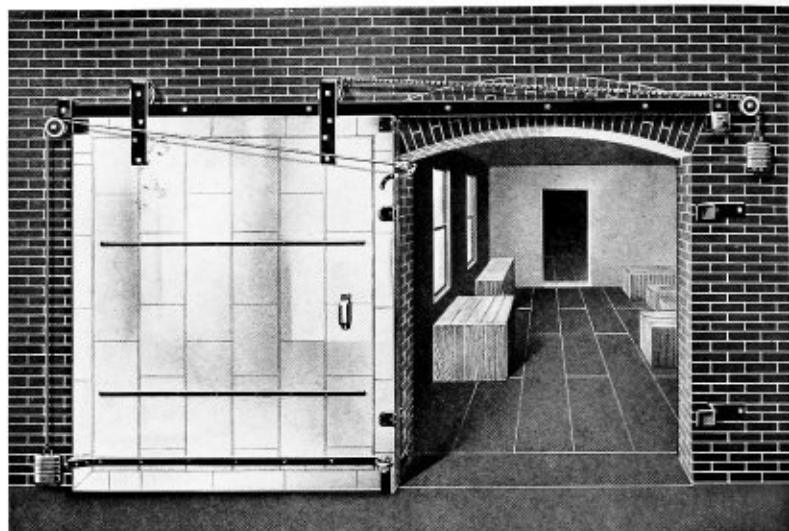
See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.



No. 303 R-W Level Track Fire Door Fixtures

FIXTURES FOR THREE-PLY (2½-INCH) OR TWO-PLY (1½-INCH) DOORS
HARDWARE SAME AS STYLE NO. 201 MONARCH

This style fixture is used for openings where there is not enough head-room to place track on an incline of $\frac{3}{4}$ inch to the foot. Two sets of weights are used to balance the door. The back weights are held in position by a fusible link. In case of fire this link fuses and allows back weights to drop and the front weights then pull the door shut.



This fixture is the same style as No. 201, shown on Page 151, except that it operates on level track. This type has but one fusible link which is exposed in the opening.

PRICE LIST

The following price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counter-balance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pr. Hangers	Price List	Weight per Set, Lbs.	*Width of Opening with 1½ pr. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$19.95	182	6½ feet	\$26.10	254
3½ feet	20.55	188	7 feet	26.65	259
4 feet	21.10	202	7½ feet	27.20	265
4½ feet	21.60	208	8 feet	27.80	273
5 feet	22.15	213	8½ feet	28.40	279
5½ feet	22.75	225	9 feet	29.05	293
6 feet	23.40	233	9½ feet	29.70	299
			10 feet	30.30	304

- No. 303 Fixtures only, per set, (less track and hangers) \$12.00
 No. 303-84 Track only, with brackets, weight $4\frac{1}{2}$ pounds, per foot40
 No. 303-102 Hangers only, (Page 149), weight 30 pounds, per pair 4.10
 No. 303-202 Adjustable Hangers only, (Page 149), weight 36 pounds, per pair 7.00
 *For openings, not doors, over six feet wide, Underwriters require three hangers.

Directions for Ordering—See Page 148, and give all dimensions asked for. *Discount*

NOTE—This fixture requires 14 inches of head-room for non-adjustable hangers and 17 inches for the adjustable hanger. Side-wall room required on side toward which door slides in closing 19 inches and on opposite side the width of opening plus 19 inches.

To determine length of track, double width of opening and add 29 inches.

Detail of parts shown on pages 152, 153.

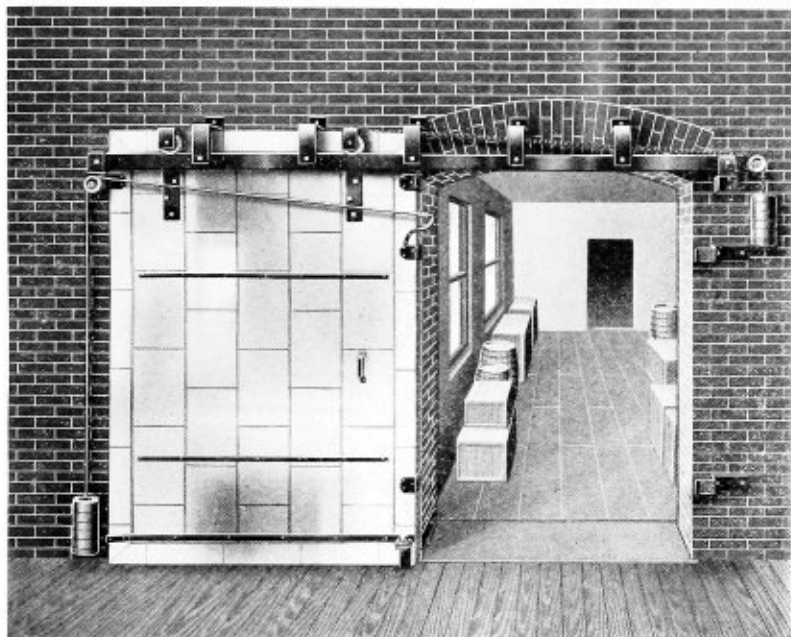
See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.



No. 304

R-W Special Level Drop Bracket Track Fire Door Fixtures

DESIGNED ESPECIALLY FOR LOW HEAD-ROOM
FIXTURES FOR THREE-PLY (2½-INCH) OR TWO-PLY (1½-INCH) DOORS.
HARDWARE SAME AS STYLE NO. 201 MONARCH



This style fixture is operated the same as No. 303, illustrated on opposite page, except the track is dropped down in front of door, reducing the amount of head-room required.

This type has but one fusible link, which is exposed in the opening.

PRICE LIST

The following price list includes non-adjustable hangers, track and fixtures complete for doors when used on one side of wall only. If doors are to be

used on both sides of wall, double sets will be required and the price will be doubled. Fixtures packed complete with all bolts and screws for attaching parts to door, heavy cast washers for wall bolts and necessary counter-balance weights.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Width of Opening with 1 pr. Hangers	Price List	Weight per Set, Lbs.	* Width of Opening with 1½ pr. Hangers	Price List	Weight per Set, Lbs.
3 feet	\$23.70	211	6½ feet	\$32.35	299
3½ feet	24.30	217	7 feet	32.90	304
4 feet	24.80	227	7½ feet	33.45	310
4½ feet	25.35	235	8 feet	36.55	344
5 feet	27.15	250	8½ feet	37.15	350
5½ feet	29.00	268	9 feet	37.70	377
6 feet	29.65	278	9½ feet	39.05	383
			10 feet	40.30	388

No. 304 Fixtures only, per set, (less track and hangers).....\$12.00

No. 304-84 Track only, with brackets, weight 5 pounds, per foot......65

No. 303-102 Hangers only, (Page 149), weight 30 pounds, per pair..... 4.10

*For openings, not doors, over six feet wide, Underwriters require three hangers.

Discount.....

Directions for Ordering—See Page 148 and give all dimensions asked for, and sketch showing location of obstructions overhead and state amount of head-room above top of opening.

NOTE—This fixture requires 9 inches of head-room. Can furnish for head-room as low as 7½ inches on application. Side-wall room required on side toward which door slides in closing 19 inches and on opposite side the width of opening plus 19 inches.

To determine length of track, double width of opening and add 29 inches.

Detail of parts shown on pages 152, 153.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.



No. 203 — R-W Flat Track Vertical Sliding Fire Door Fixtures

(WILCOX No. 203)

FIXTURES MADE REGULARLY FOR THREE-PLY (2½-INCH) DOORS,
BUT CAN BE FURNISHED FOR TWO-PLY (1½-INCH) DOORS

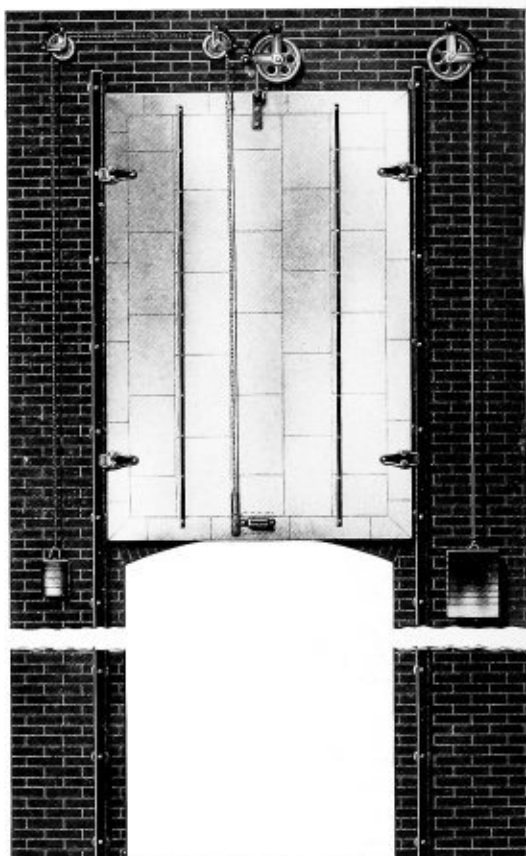
This type of fixture is recommended only for openings where slide or swing fixtures cannot be used on account of obstructions. The vertical balance fire-doors and fixtures are made to act by gravity and close automatically at the approach of fire. Two sets of weights are used on doors weighing up to 300 pounds; three sets on doors weighing more than 300 pounds. As shown in the illustration, the fusible link is in the circuit which supports the light weight. Heavy counter-balance weights are attached by wire cable to the top of door, and are adjusted to prevent sudden dropping of the door, allowing same to close slowly when link fuses, which releases the small weights. Illustration shows fixtures for doors weighing up to 300 pounds. The same fixtures are furnished for doors weighing over 300 pounds, except an extra set of cable pulleys, weights, cable and cable brackets are added as shown on opposite page.

PRICE LIST

The following price list includes guides, track and fixtures complete with all bolts and screws for attaching parts to door, drop washers for track and heavy cast washers for wall bolts.

Counter-balance Weights are Not Included in Price List or Weight of Fixtures.

Wall bolts also are not included, but will be furnished at moderate price if thickness of wall is given.



Height of Opening	Doors up to 300 pounds		Doors over 300 pounds	
	Price List	Weight, Lbs.	Price List	Weight, Lbs.
5 feet	\$28.05	220	\$37.90	260
6 feet	30.10	245	40.20	285
7 feet	32.15	272	42.50	312
8 feet	34.20	300	44.85	340
9 feet	36.25	329	47.15	370
10 feet	38.30	360	49.45	405

*No. 203 Fixtures only, for doors up to 300 pounds, per set.....\$17.90

*No. 203 Fixtures only, for doors over 300 pounds, per set.....26.35

No. 203-84 Track only, with brackets, weight 4½ pounds, per foot......40

No. 203 Counter-Balance Weights, per pound......08

*Fixtures only do not include track, cable, sash cord or weights.

Directions for Ordering—See Page 148, and give all dimensions asked for. *Discount*.....
NOTE—This fixture requires double the height of opening plus 19 inches of head-room. Weight of door governs amount of weights necessary to balance same. Heavy weights should be specified equal to seven-eighths weight of door and small counter-balance weights to one-eighth weight of door. This fixture requires on doors less than 300 lbs, 15 and 21 inches of side-wall room; over 300 lbs, 21 and 28 inches.

Detail of parts shown on pages 166, 167.

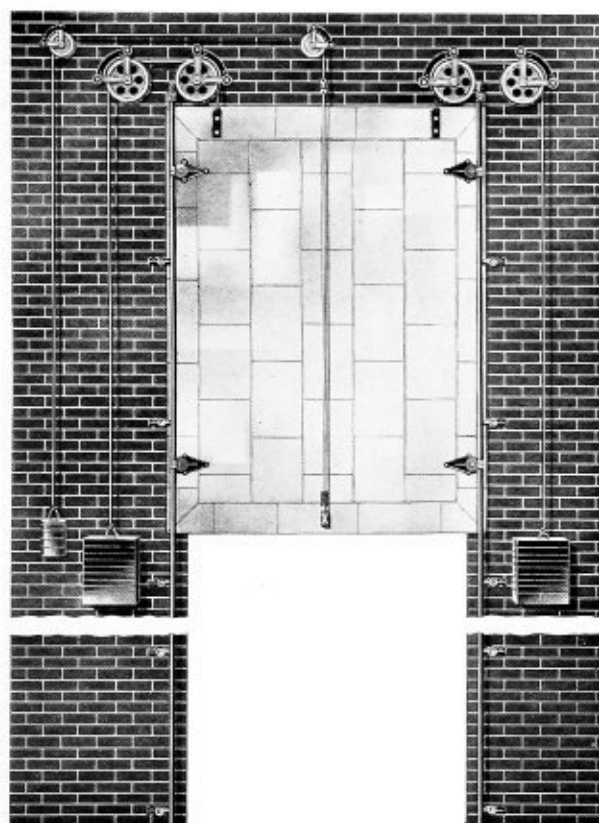
For weights of standard tin-clad fire doors, see page 189.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

No. 603

R-W Round Track Vertical Sliding Fire Door Fixtures

FIXTURES MADE ONLY FOR THREE-PLY (2½-INCH) DOORS



This type of fixture is used for openings where obstructions do not permit the use of slide or swing fixtures.

Fixtures are the same as shown on opposite page, except that round track and guides are used.

Illustration shows fixtures for doors weighing more than 300 pounds.

On account of the necessity of heavy weights to balance vertical doors, the hardware must be made extra heavy, and the fixtures, therefore, much more expensive than for the ordinary sliding or swing fire-doors.

PRICE LIST

The following price list includes guides, track and fixtures complete with all bolts and screws for attaching parts to door, drop washers for track and heavy cast washers for wall bolts.

Counter-balance Weights are Not Included in Price List or Weight of Fixtures.

Wall bolts also are not included, but will be furnished at moderate price if thickness of wall is given.

Height of Opening	Doors up to 300 pounds		Doors over 300 pounds	
	Price List	Weight, Lbs.	Price List	Weight, Lbs.
5 feet	\$28.05	175	\$37.90	215
6 feet	30.10	200	40.20	240
7 feet	32.15	227	42.50	267
8 feet	34.20	255	44.85	295
9 feet	36.25	284	47.15	325
10 feet	38.30	315	49.45	360

*No. 603 Fixtures only, for doors up to 300 pounds, per set.....\$17.90

*No. 603 Fixtures only, for doors over 300 pounds, per set..... 26.35

No. 603-TK Track only, with brackets, weight 2½ pounds, per foot..... .40

No. 203 Counter-Balance Weights, per pound..... .08

*Fixtures only do not include track, cable, sash cord or weights.

Directions for Ordering—See Page 148, and give all dimensions asked for. Discount.....

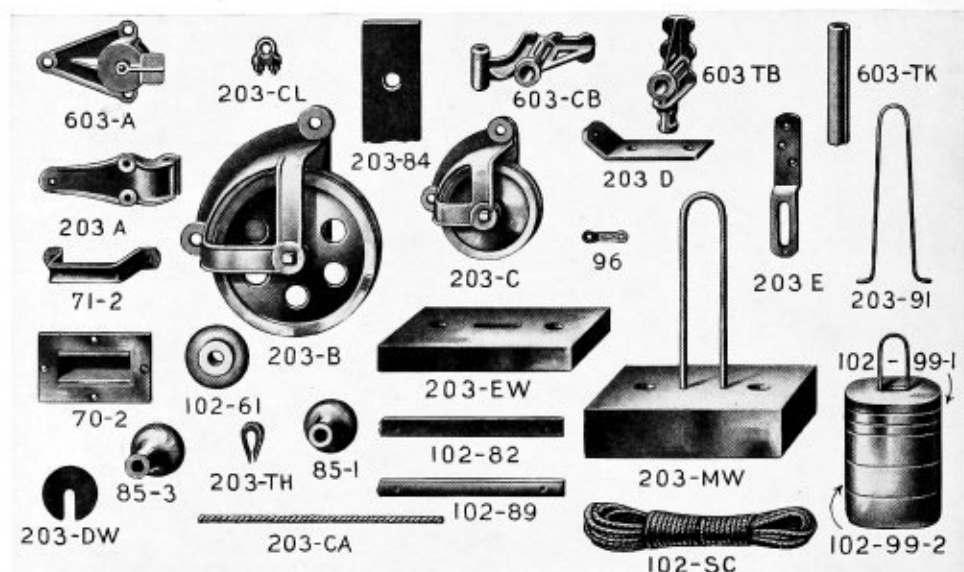
NOTE—This fixture requires double the height of opening plus 19 inches of head-room. Weight of door governs amount of weights necessary to balance same. Heavy weights should be specified equal to seven-eighths weight of door and small counter-balance weights to one-eighth weight of door. This fixture requires on doors less than 300 lbs. 16 and 22 inches of side-wall room; over 300 lbs., 22 and 29 inches.

Detail of parts shown on pages 166, 167.

For weights of standard tin-clad fire doors, see page 189.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

Detail of Parts for No. 203 and 603 Vertical Sliding Fire Door Fixtures



NOTE—For description and prices, see opposite page.

WALL BOLT LIST

SHOWING NUMBER OF WALL BOLTS REQUIRED TO ERECT FIXTURES COMPLETE

No. 203 FIXTURES					No. 603 FIXTURES				
Height of Opening	Number of Track Bolts	FOR CABLE PULLEYS		For Rope Pulley	Height of Opening	Number of Track Bolts	FOR CABLE PULLEYS		For Rope Pulley
		Doors up to 300 pounds	Doors over 300 pounds				Doors up to 300 pounds	Doors over 300 pounds	
4' 7" to 5' 3"	12	4	8	4	4' 10" to 5' 9"	14	4	8	4
5' 4" to 7' 11"	14	4	8	4	5' 10" to 6' 9"	16	4	8	4
8' 0" to 9' 0"	16	4	8	4	6' 10" to 7' 9"	18	4	8	4
9' 1" to 10' 5"	18	4	8	4	7' 10" to 8' 9"	20	4	8	4
10' 6" to 11'	20	4	8	4	8' 10" to 9' 9"	22	4	8	4
					9' 10" to 10' 9"	24	4	8	4

Track bolts: For three-ply doors—Thickness of wall plus five inches.

Track bolts: For two-ply doors—Thickness of wall plus four inches.

Cable and Rope Pulley bolts—Thickness of wall plus three inches.

Track bolts: For three-ply doors—Thickness of wall plus six inches.

Cable and Rope Pulley bolts—Thickness of wall plus three inches.

NOTE—All track and Cable Pulley bolts are $\frac{3}{4}$ -inch; Rope Pulley bolts are $\frac{1}{2}$ -inch diameter.



Price List

DETAIL OF PARTS FOR VERTICAL SLIDING FIRE DOOR FIXTURES,
ILLUSTRATED ON OPPOSITE PAGE

No. 203

Items used for doors less than 300 lbs.	Items used for doors 300 lbs. and over	Number	DESCRIPTION	Price List
1	1	70-2	Flush pull, each	\$.25
1	1	71-2	Door Handle, each	.15
.	.	85-1	Low Track Cones, for 2-ply (1½") Doors, each	.14
.	.	85-3	High Track Cones, for 3-ply (2½") Doors, each	.18
2	2	96	Fusible Links, each	.30
8	12	102-61	Cast Washers, (for wall bolts of pulleys additional required for track) each	.15
2	2	102-82	Binder Strips, each	.40
2	2	102-89	Chafing Strips, each	.40
.	.	102-99 No. 1	Light Weight, 3 pounds each, per pound	.08
.	.	102-99 No. 2	Heavy Weight, 9 pounds each, per pound	.08
.	.	102-SC	No. 7 Sash Cord, (length, 3 times height of door) per foot	.05
4	4	203-A	Track Guides, each	.50
2	4	203-B	10½-inch Cable Pulleys, each	3.50
2	2	203-C	6-inch Rope Pulleys, for link cord, each	1.75
1	2	203-D	Cable Brackets, each	.25
1	1	203-E	Link Brackets, each	.25
.	.	203-CA	¾-inch Steel Cable, (length, 1 piece twice height of door, over 300 pounds requires 2 pieces) per foot	.14
2	4	203-CL	Cable Clamp, each	.20
.	.	203-DW	Drop Washers, (one for each track bracket) each	.10
.	.	203-EW	Extra Weights, (25 pounds) per pound	.08
1	2	203-MW	Master Weight (50 pounds) per pound	.08
2	4	203-TH	Cable Thimble, each	.10
2 Runs.	2 Runs.	203-84	3½x½-in. Track and Brackets, (length twice height of opening less four inches) per foot	.40
1	1	203-91	Weight Holders, each	.20

No. 603

1	1	70-2	Flush Pull, each	.25
1	1	71-2	Door Handle, each	.15
2	2	96	Fusible Links, each	.30
8	12	102-61	Cast Washers, (for wall bolts of pulleys—additional required for track) each	.15
2	2	102-82	Binder Strips, each	.40
2	2	102-89	Chafing Strips, each	.40
.	.	102-99 No. 1	Light Weight, 3 pounds each, per pound	.08
.	.	102-99 No. 2	Heavy Weight, 9 pounds each, per pound	.08
.	.	102-SC	No. 7 Sash Cord, (length, 3 times height of door) per foot	.05
2	4	203-B	10½-inch Cable Pulleys, each	3.50
2	2	203-C	6-inch Rope Pulleys, for link cord, each	1.75
1	2	203-D	Cable Brackets, each	.25
1	1	203-E	Link Brackets, each	.25
.	.	203-CA	¾-inch Steel Cable, (length 1 piece twice height of door, over 300 pounds requires 2 pieces) per foot	.14
2	4	203-CL	Cable Clamp, each	.20
.	.	203-EW	Extra Weights, (25 pounds) per pound	.08
1	2	203-MW	Master Weight, (50 pounds) per pound	.08
2	4	203-TH	Cable Thimble, each	.10
1	1	203-91	Weight Holders, each	.20
4	4	603-A	Track Guides, each	.50
.	.	603-CB	Center Track Bracket, for 3-ply (2½") Doors, each	.30
.	.	603-TB	Top Track Bracket, for 3-ply (2½") Doors, each	.30
2 Runs.	2 Runs.	603-TK	Round Track and Brackets, (length twice height of door) per ft.	.40
.	.	603-DW	Drop Washers, (one for each track bracket) each	.10

Discount.....

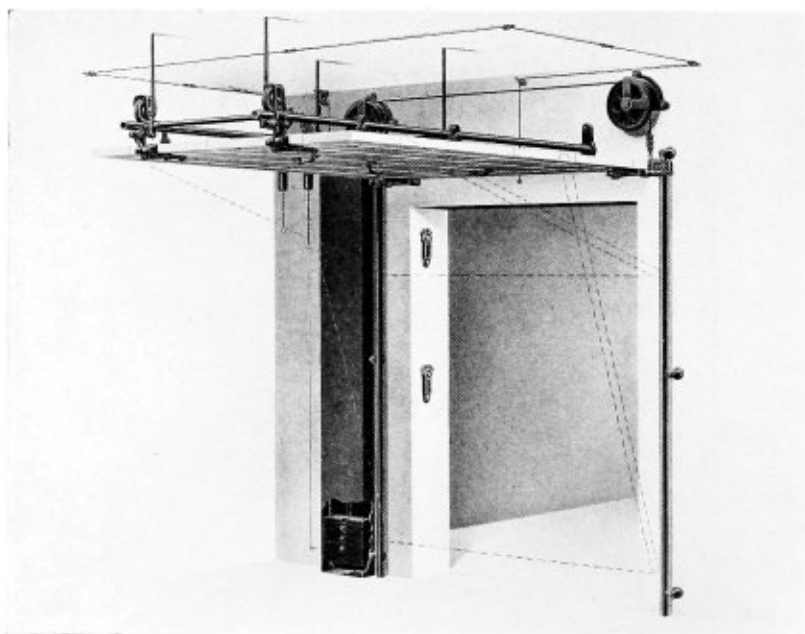
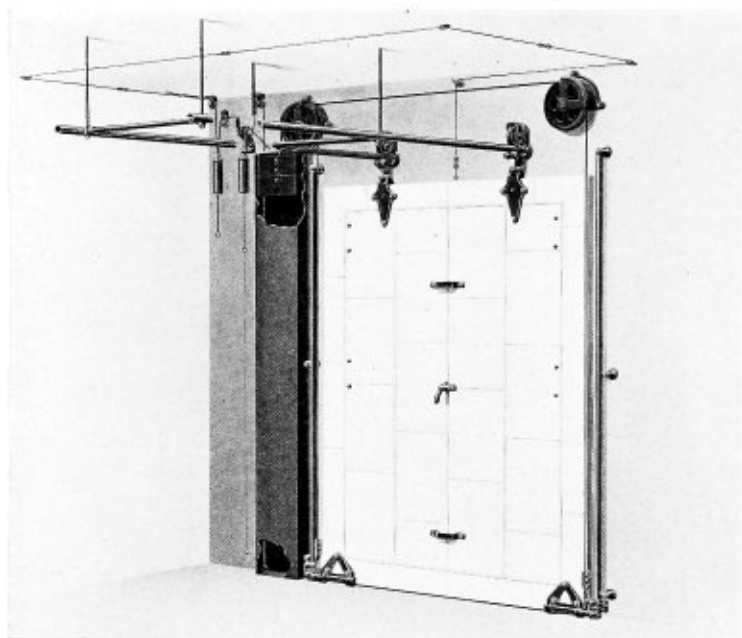
NOTE—Items on which no quantity is shown in above table, are determined according to weight of door and size of opening. Specify heavy weights equal to seven-eighths weight of door and counter-balance weights equal to one-eighth weight of door. Always specify by number.

No. 649

R-W Round Track Horizontal Fire and Warehouse Door Fixtures

(WILCOX No. 649)

FIXTURES FOR THREE-PLY (2½-INCH) OR TWO-PLY (1½-INCH) DOORS





No. 649

R-W Round Track Horizontal Fire and Warehouse Door Fixtures

(Wilcox No. 649)

The R-W Horizontal Trolley Door meets a long-felt want for a practical warehouse and fire door. This door is applicable to openings of all kinds, but is especially adapted for use where ceilings prevent the use of a vertical door, and where obstructions at the side of the opening prohibit the use of the ordinary sliding door. The R-W Horizontal Door, when open, is entirely out of the way. When used as a Fire Door, it is equipped with our automatic closing device.

PRICE LIST

The following price list includes hangers, track, fixtures and counter-balance weights complete for the different openings listed, in the non-automatic type for warehouse doors. These prices are based on openings having sufficient head-room and side-wall space, so it is not necessary to compound counter-balance weights. Fixtures packed complete with all bolts and screws for attaching parts to door and heavy cast washers for wall bolts.

Wall bolts are not included, but will be furnished at moderate price if thickness of wall is given.

Size of Opening Feet	Space required above opening without compound- ing weights, inches	Price List	Size of Opening Feet	Space required above opening without compound- ing weights, inches	Price List
4 x 7	30	\$48.00	4 x 9	35	\$51.25
5 x 7	34	49.90	5 x 9	39	53.75
6 x 7	37	51.80	6 x 9	43½	56.25
7 x 7	40½	53.70	7 x 9	47½	58.75
8 x 7	44	55.60	8 x 9	52	61.25
9 x 7	47	57.50	9 x 9	56	63.25
10 x 7	50½	59.30	10 x 9	60½	66.25
4 x 8	33	49.00	4 x 10	37	52.25
5 x 8	36½	51.20	5 x 10	41½	55.05
6 x 8	40½	53.40	6 x 10	46	57.85
7 x 8	44	55.60	7 x 10	51	60.65
8 x 8	47½	57.80	8 x 10	56	63.45
9 x 8	51½	60.00	9 x 10	60½	66.25
10 x 8	55	62.20	10 x 10	65	69.05

Discount.....

NOTE—When above fixtures are required for fire doors, add \$3.00 per set to net price.

NOTE—Head-room given in table above applies to three-ply, 2½-inch, tin-clad doors.

Directions for Ordering—State width and height of opening (mention width first), thickness of doors, lap of doors at side and top, available wall space at both sides and above opening; if doors are located in outside walls or partition walls, also if locks are to be operated from one side or both sides of door.

State if hanger rods for horizontal track are to be attached to roof, ceiling or beams, giving distance from top of door to supporting members and show location of joist or beams if hanger rod is to be attached to beams. If to be attached to roof, describe same, stating thickness and material from which it is built. If to be attached to concrete floors above, state thickness of same.

State if fixtures are for warehouse or fire doors.

For weights of standard tin-clad fire doors, see page 189.

NOTE—On warehouse doors, side-wall space required equals lap of door plus 5½ inches one side and lap of door plus 16 inches on weight side when not necessary to compound weights; on fire doors same as above, except on weight side 27 inches are required for the automatics.

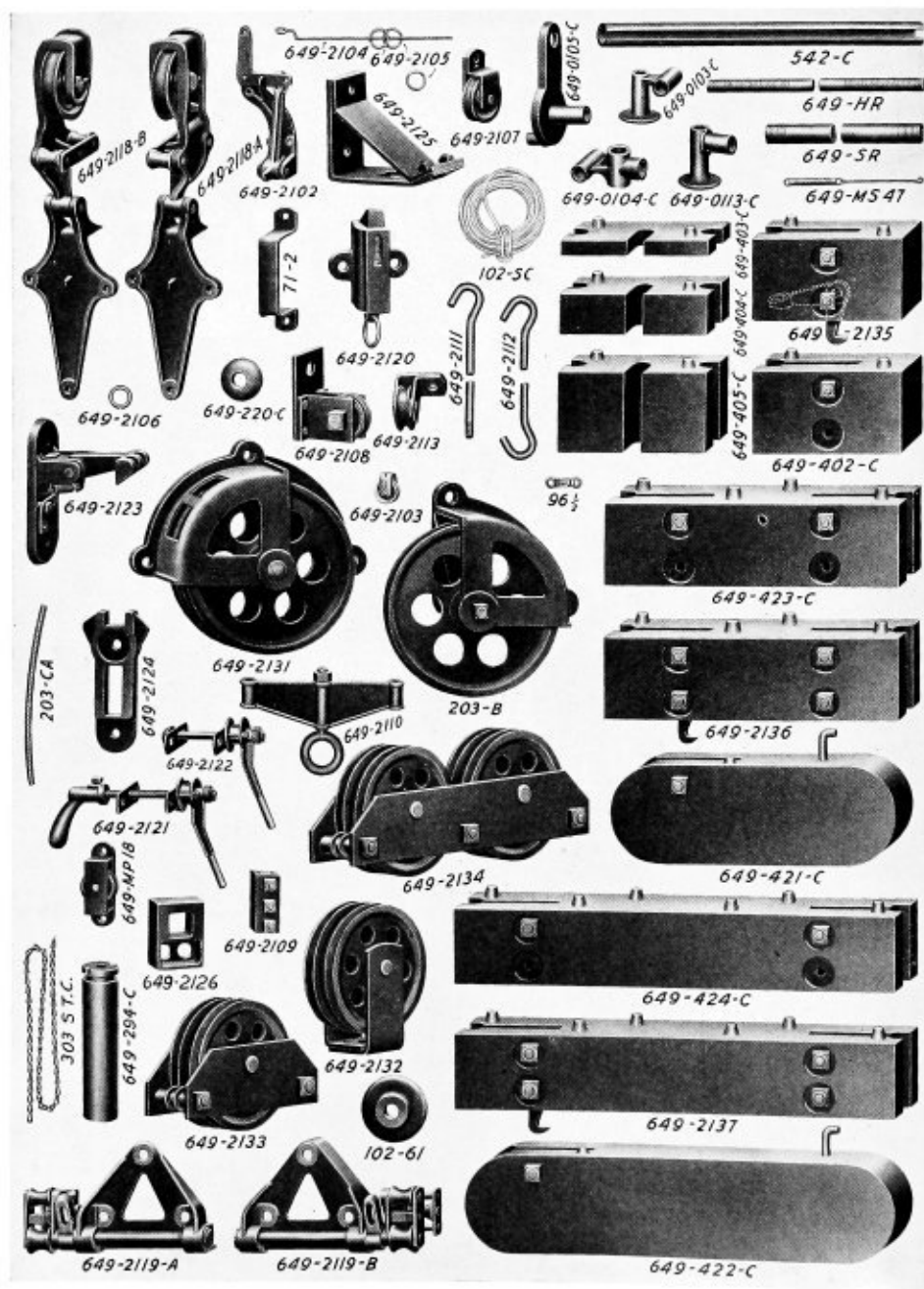
When there is insufficient space above the opening as shown in the second column of the table above, it is necessary to compound the weights, in which case the exact condition should be submitted to our Engineering Department showing actual available space on both sides and above the opening. Special fixtures can be made to meet most requirements.

Detail of parts shown on pages 170, 171.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

Detail of Parts for No. 649 Fixtures

(WILCOX No. 649)



NOTE—For description and prices, see opposite page.



Price List

DETAIL OF PARTS FOR HORIZONTAL SLIDING FIRE DOOR FIXTURES,
ILLUSTRATED ON OPPOSITE PAGE

No. 649

No.	DESCRIPTION	Weight Pounds	Price List
71-2	Steel Handle	each $\frac{3}{4}$	\$.15
96 $\frac{1}{2}$	Fusible Link	each $\frac{1}{8}$	.20
102-61	Cast Washer (for wall bolts on fire doors)	each $1\frac{1}{2}$	.15
102-SC	No. 7 Sash Cord	per foot	.05
203-CA	$\frac{3}{8}$ -inch Steel Cable	per foot	.14
203-B	Single Cable Pulley	each 17	2.70
303-St. C	No. 2 Steel Chain	per foot	.10
542-C	Track Steel for Horizontal Track	per foot $1\frac{1}{2}$	.19
542-C	Track Steel for Vertical Track	per foot $1\frac{1}{2}$	.19
649-2102	Main Keeper	each $2\frac{1}{2}$	1.10
649-2103	Ceiling Pulley (Old No. MW-4)	each $\frac{3}{8}$	.20
649-2104	Needle	each $\frac{1}{8}$	.16
649-2105	Chain Ring	each $\frac{1}{8}$	.06
649-2106	Weight Trip Ring	each $\frac{1}{8}$	.08
649-2107	Side Chain Pulley	each 1	.50
649-2108	Cable Bracket	each 2	.60
649-2109	Cable Clamp	each $\frac{3}{4}$	.60
649-2110	Double Weight Holder	each $5\frac{1}{2}$	2.00
649-2111	Weight Hook for single set of weights	each 1	.80
649-2112	Weight Hook for double set of weights	each $1\frac{1}{2}$	.80
649-2113	Ceiling Chain Pulley	each 1	.50
649-2118A	Top Hanger for $2\frac{1}{2}$ -inch Doors (right and left)	each 10	2.60
649-2118B	Top Hanger for $1\frac{1}{2}$ -inch Doors (right and left)	each $9\frac{1}{2}$	2.60
649-2119A	Bottom Hanger for $2\frac{1}{2}$ -inch Doors (right and left)	each 8	1.80
649-2119B	Bottom Hanger for $1\frac{1}{2}$ -inch Doors (right and left)	each $7\frac{1}{2}$	1.80
649-2120	Door Bolt	each $3\frac{1}{4}$	1.30
649-2121	Latch Handle (For both sides of door)	each 2	.90
649-2122	Latch Handle (For one side of door)	each $1\frac{1}{2}$	.80
649-2123	Four Point Latch, less keepers	per set 35	6.00
649-2124	Keeper for Four Point Latch (4 pieces to set)	each $2\frac{1}{4}$	.50
649-2125	Angle Keeper for No. 2120 Bolt (to attach to face of wall). Made in four sizes, for $1\frac{1}{2}$ -in., 2-in., $2\frac{1}{2}$ -in. and $3\frac{1}{2}$ -in. doors	each 5	.80
649-2126	Keeper for No. 2120 Bolt (to attach to bottom of lintel)	each $2\frac{1}{4}$	.40
649-2131	Double Cable Pulley	each 24	3.25
649-2132	Pulley for single compounded weight	each 15	2.50
649-2133	Pulley for double compounded weight	each 18	3.00
649-2134	Pulley for triple compounded weight	each 34	7.00
649-2135	Main 50 pound weight with trip	each 50	4.50
649-2136	Main 100 pound weight with trip	each 100	8.50
649-2137	Main 150 pound weight with trip	each 150	12.50
649-220C	Cast Washer (For wall bolts on warehouse doors)	each $\frac{3}{4}$	.10
649-294C	Trip Weight	each $8\frac{1}{4}$	.70
649-402C	Main 50 pound weight	each 50	4.00
649-403C	Auxiliary 10 pound weight	each 10	.80
649-404C	Auxiliary 25 pound weight	each 25	2.00
649-405C	Auxiliary 50 pound weight	each 50	4.00
649-421C	Drop off 100 pound weight	each 100	8.50
649-422C	Drop off 150 pound weight	each 150	13.00
649-423C	Main 100 pound weight	each 100	8.00
649-424C	Main 150 pound weight	each 150	12.00
649-0103C	Center Bracket for Vertical Track	each 1	.18
649-0104C	Center Bracket for Horizontal Track	each 1	.28
649-0105C	End Bracket for Horizontal Track	each $1\frac{1}{2}$	.24
649-0113C	Top Bracket for Vertical Track	each 1	.50
649-HR	Hanger Rod $\frac{3}{8}$ -inch Round	per foot $1\frac{1}{2}$	.18
649-SR	Spreader Rod $\frac{3}{8}$ -inch Round	per foot 1	.22
648-MP18	Side Pulley (old No. M-11)	each $\frac{3}{4}$	.20
649-MS47	Latch Spring (old No. M-10)	each $\frac{1}{8}$	.14
649-MW15	No. 20 Bright Wire	per pound	.10

NOTE—Always specify by number.

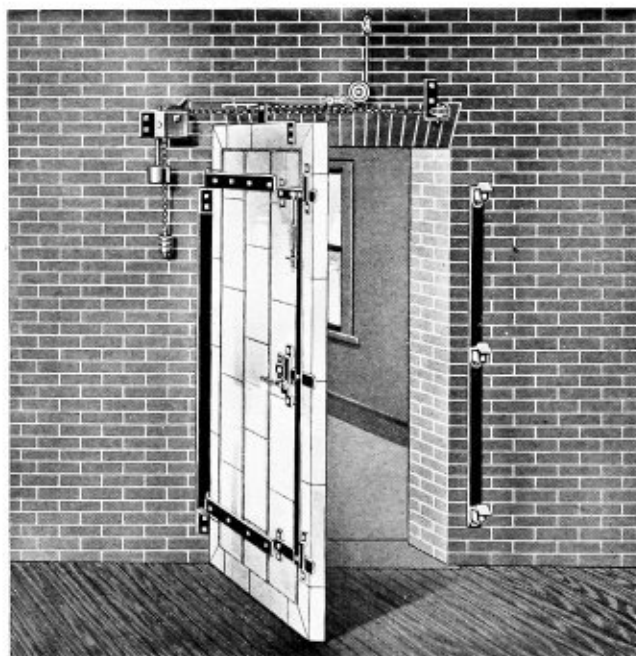
WALL BOLT LIST

Discount.....

Showing number of wall bolts required to erect fixtures complete. Five bolts for pulleys, length equals thickness of wall plus three inches. Two bolts for horizontal track end brackets, length equals thickness of wall plus three inches. Six bolts for vertical track brackets, length equals thickness of wall plus five inches for doors up to eight feet high; over eight feet require eight bolts.

No. 406 R-W New Automatic Swinging Fire Door Fixtures for Tin Clad Single Doors

INSPECTED BY UNDERWRITERS' LABORATORIES (INC.), UNDER DIRECTION OF THE
NATIONAL BOARD OF FIRE UNDERWRITERS.



The above illustrated swing door Hardware included in list of Fire Door Hardware approved and labeled by National Board of Fire Underwriters after exhaustive tests by the Underwriters' Laboratories, (Inc.).

The automatic link and cord arrangement on this fixture extends above the opening to ceiling and when used with doors on both sides of wall same extends through, so that the fusing of link on either side will cause the doors to close. Fixtures furnished for either flush or lap doors.

PRICE LIST

The following price list includes a set of fixtures complete consisting of multiple pintels, multiple latches, multiple latch keepers, hinge straps, handles, automatic closing attachments, all bolts (except pintel and keeper bolts) for attaching hardware and heavy washers for multiple pintels and latch keeper.

Wall bolts for multiple pintels and latch keepers will be furnished at a moderate price, if thickness of wall is given. State if doors are used on one or both sides of wall.

No. 406 Fixtures complete, for doors up to 5 ft. 9 in. high, (with 2 hinges), per set.....	\$17.00
No. 406 Fixtures complete, for doors 5 ft. 10 in. to 8 ft. 9 in. high, (with 3 hinges), per set..	20.00
No. 406 Fixtures complete, for doors 8 ft. 10 in. to 10 ft. 4 in. high, (with 4 hinges), per set	24.00
No. 406 Fixtures, less hinges, pintels and latch, per set.....	8.00

Weight—Complete set, about 105 pounds; fixtures only, 70 pounds.

Discount.....

Directions for Ordering—See Page 148, and give all dimensions asked for.

Unless otherwise specified on order, fixtures complete will be sent for 2½-inch doors.

NOTE—This fixture requires 9 inches of head-room above top of door and 11 inches of side-wall space beyond door on hinge side and 3½ inches on latch side.

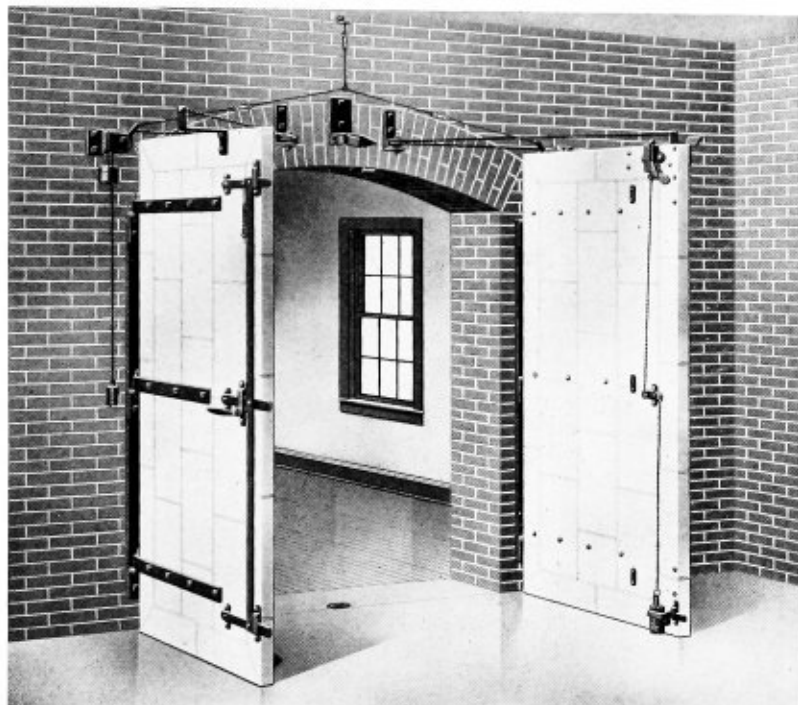
Detail of parts shown on pages 174, 175.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

No. 506

R-W New Automatic Swinging Fire Door Fixtures for Tin Clad Double Doors

INSPECTED BY UNDERWRITERS' LABORATORIES (INC.), UNDER DIRECTION OF THE
NATIONAL BOARD OF FIRE UNDERWRITERS.



The above illustrated swing door Hardware included in list of Fire Door Hardware approved and labeled by National Board of Fire Underwriters after exhaustive tests by the Underwriters' Laboratories, (Inc.).

The automatic link and cord arrangement on this fixture extends above the opening to ceiling and when used with doors on both sides of wall same extends through, so that the fusing of link on either side will cause the doors to close. Fixtures furnished for either flush or lap doors.

PRICE LIST

The following price list includes a set of fixtures complete, consisting of multiple pintels, multiple latches, multiple latch keepers, hinge straps, handles, automatic closing attachments, all bolts (except pintel bolts) for attaching hardware and heavy cast washers for multiple pintels.

Wall bolts for multiple pintels will be furnished at a moderate price, if thickness of wall is given. State if doors are used on one or both sides of wall.

No. 506 Fixtures complete, for doors up to 5 ft. 9 in. high, (with 4 hinges), per set.....	\$35.00
No. 506 Fixtures complete, for doors 5 ft. 10 in. to 8 ft. 9 in. high, (with 6 hinges), per set..	39.00
No. 506 Fixtures complete, for doors 8 ft. 10 in. to 10 ft. 4 in. high, (with 8 hinges), per set	44.00
No. 506 Fixtures, less hinges, pintels and latch, per set.....	18.00

Weight—Complete set, about 180 pounds; fixtures only, 100 pounds.

Discount.....

Directions for Ordering—See Page 148, and give all dimensions asked for.

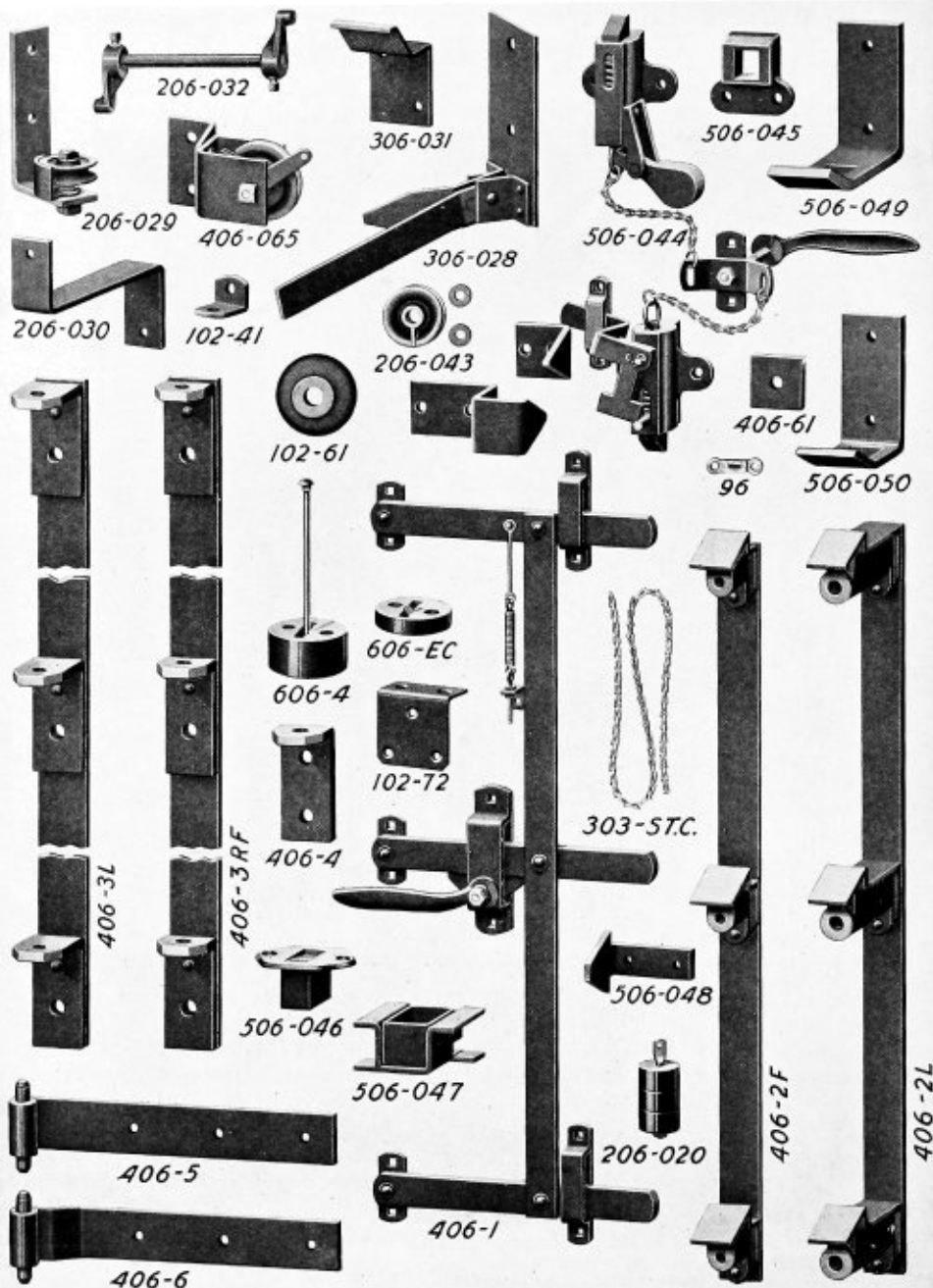
Unless otherwise specified on order, fixtures complete will be sent for 2½-inch doors, with Standing Door Bolt for Partition Walls.

NOTE—This fixture requires 10 inches of head-room above top of door and 11 inches of side-wall space on each side of door.

Detail of parts shown on pages 174, 175.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

Detail of Parts for Nos. 406 and 506 Swing Fixtures



NOTE—For description and prices, see opposite page.

The above hardware included in the list of Fire Door hardware examined under standard requirements of the National Board of Fire Underwriters, after exhaustive investigation by the Underwriters' Laboratories, (Inc.), and approved for use.



Price List

DETAIL OF PARTS FOR NOS. 406 AND 506 SWING FIRE DOOR FIXTURES,
ILLUSTRATED ON OPPOSITE PAGE

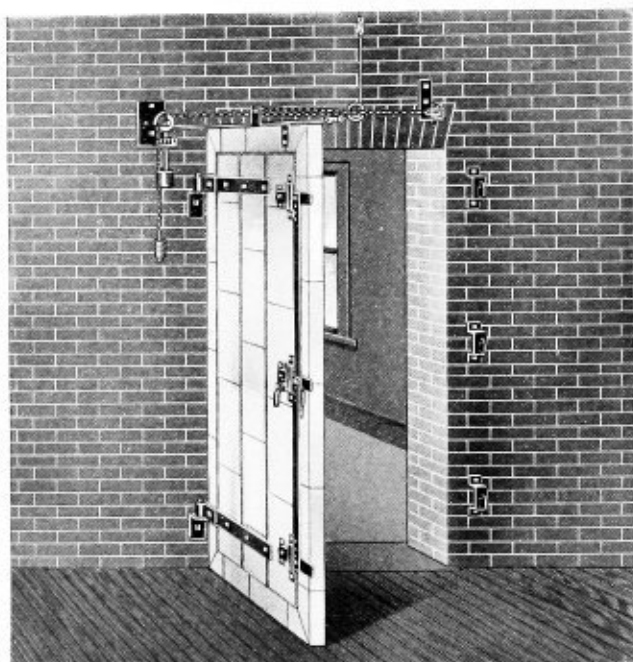
No. 406	No. 506	Number	DESCRIPTION	Price List
2	3	96	Fusible Link, each	
1	1	102-41	Rope Angle fold No. 207-0411 each	\$.30
		102-61	Cast Washer (for pintel and lap door keeper) each	.15
	2	102-72	Bumper Shoe, each	15
1	2	206-020	Weight (3 small) with weight holder, each	.30
1	2	206-029	Chain Pulley, each	1.50
1	2	206-030	Chain Angle, each	.25
1	2	206-032	Wall Shaft with Cranks, each	.60
1	2	206-043	Center Pulley with Bushing, each	.25
20 ft.	35 ft.	303-ST-C	No. 2 Steel Sash Chain, per foot	.10
	1	306-028	Door Control, each	1.50
	1	306-031	Door Control Lifter, each	.25
1	2	406-065	Puller and Trip each	2.00
MULTIPLE LATCHES—FOR 1½" OR 2½" DOORS				
1	1	406-1. 2x30	With 2 Latch Bars on 30-in. Centers, each	4.00
Doors up to 5' 9" high require Double Latch		406-1. 2x42	With 2 Latch Bars on 42-in. Centers, each	4.00
		406-1. 3x27	With 3 Latch Bars on 27-in. Centers, each	5.00
5' 10" to 8' 9" Triple Latch		406-1. 3x35	With 3 Latch Bars on 35-in. Centers, each	5.00
		406-1. 3x39	With 3 Latch Bars on 39-in. Centers, each	5.00
8' 10" to 10' 4" Quad-ruple Latch		406-1. 4x30	With 4 Latch Bars on 30-in. Centers, each	6.00
		406-1. 4x34	With 4 Latch Bars on 34-in. Centers, each	6.00
MULTIPLE LATCH KEEPERS—LAP DOOR KEEPERS MADE FOR 1½" AND 2½" DOORS				
1	1	406-2. L. 2x30	With 2 Keepers on 30-in. Centers for Lap Doors, each	2.00
		406-2. F. 2x30	With 2 Keepers on 30-in. Centers for Flush Doors, each	2.00
		406-2. L. 2x42	With 2 Keepers on 42-in. Centers for Lap Doors, each	2.00
		406-2. F. 2x42	With 2 Keepers on 42-in. Centers for Flush Doors, each	2.00
Doors up to 5' 9" high require Double Keepers		406-2. L. 3x27	With 3 Keepers on 27-in. Centers for Lap Doors, each	2.50
		406-2. F. 3x27	With 3 Keepers on 27-in. Centers for Flush Doors, each	2.50
5' 10" to 8' 9" Triple Keepers		406-2. L. 3x35	With 3 Keepers on 35-in. Centers for Lap Doors, each	2.50
		406-2. F. 3x35	With 3 Keepers on 35-in. Centers for Flush Doors, each	2.50
8' 10" to 10' 4" Quad-ruple Keepers		406-2. L. 3x39	With 3 Keepers on 39-in. Centers for Lap Doors, each	2.50
		406-2. F. 3x39	With 3 Keepers on 39-in. Centers for Flush Doors, each	2.50
		406-2. L. 4x30	With 4 Keepers on 30-in. Centers for Lap Doors, each	3.00
		406-2. F. 4x30	With 4 Keepers on 30-in. Centers for Flush Doors, each	3.00
		406-2. L. 4x34	With 4 Keepers on 34-in. Centers for Lap Doors, each	3.00
		406-2. F. 4x34	With 4 Keepers on 34-in. Centers for Flush Doors, each	3.00
MULTIPLE PINTLES—LAP DOOR PINTLES MADE FOR 1½" AND 2½" DOORS				
1	2	406-3. L. 2x36	For 2 Hinges on 36-in. Centers for Lap Doors, each	2.00
		406-3. R.F. 2x36	For 2 Hinges on 36-in. Centers for Rabbed Flush Doors, each	2.00
		406-3. L. 2x48	For 2 Hinges on 48-in. Centers for Lap Doors, each	2.00
		406-3. R.F. 2x48	For 2 Hinges on 48-in. Centers for Rabbed Flush Doors, each	2.00
		406-3. L. 2x60	For 2 Hinges on 60-in. Centers for Lap Doors, each	2.00
		406-3. R.F. 2x60	For 2 Hinges on 60-in. Centers for Rabbed Flush Doors, each	2.00
		406-3. L. 3x18	For 3 Hinges on 18-in. Centers for Lap Doors, each	3.00
		406-3. R.F. 3x18	For 3 Hinges on 18-in. Centers for Rabbed Flush Doors, each	3.00
		406-3. L. 3x24	For 3 Hinges on 24-in. Centers for Lap Doors, each	3.00
		406-3. R.F. 3x24	For 3 Hinges on 24-in. Centers for Rabbed Flush Doors, each	3.00
		406-3. L. 3x30	For 3 Hinges on 30-in. Centers for Lap Doors, each	3.00
		406-3. R.F. 3x30	For 3 Hinges on 30-in. Centers for Rabbed Flush Doors, each	3.00
		406-3. L. 3x36	For 3 Hinges on 36-in. Centers for Lap Doors, each	3.00
		406-3. R.F. 3x36	For 3 Hinges on 36-in. Centers for Rabbed Flush Doors, each	3.00
		406-3. L. 3x42	For 3 Hinges on 42-in. Centers for Lap Doors, each	3.00
		406-3. R.F. 3x42	For 3 Hinges on 42-in. Centers for Rabbed Flush Doors, each	3.00
		406-3. L. 4x28	For 4 Hinges on 28-in. Centers for Lap Doors, each	4.00
		406-3. R.F. 4x28	For 4 Hinges on 28-in. Centers for Rabbed Flush Doors, each	4.00
		406-3. L. 4x32	For 4 Hinges on 32-in. Centers for Lap Doors, each	4.00
		406-3. R.F. 4x32	For 4 Hinges on 32-in. Centers for Rabbed Flush Doors, each	4.00
2, 3 or 4	4, 6 or 8	406-4	Plated for Flush Door with Angle Iron Frame, per pair	1.50
2, 3 or 4	4, 6 or 8	406-5	Hinge Straps for Lap or Flush Doors with Angle Iron Frame, per pair	\$1.10 \$1.40 \$1.70 \$2.00 \$2.30 \$2.60
2, 3 or 4	4, 6 or 8	406-6	Hinge Strap for Rabbed Flush Doors per pair	1.10 1.40 1.70 2.00 2.30 2.60
WHEN ORDERING HINGE STRAPS, STATE WIDTH AND HEIGHT OF DOOR—HINGE STRAPS ARE MADE OF 2½"x2" STEEL				
		406-61	Squeeze Steel Washers, ½"x2½"x2½"x2", each	10
	1	506-044	Top and Bottom Bolt for standing door with handle for 1½" or 2½" doors complete, each	3.50
	1	506-045	Keeper for top standing door bolt (partition wall) each	.50
	1	506-046	Keeper for bottom standing door bolt, each	1.00
	2, 3 or 4	506-047	Sill box for bottom standing door bolt when used with concrete sill, each	.50
	1	506-048	Keepers for multiple latches, each	.50
	1	506-049	Keeper for top standing door bolt (outside lap doors) 1½" or 2½" doors, each	.50
	1	506-050	Keeper for top standing door bolt (outside flush doors) each	.50
	2	606-4	Heavy Weight, 6 pounds fold number 208-41 each	.60
1	4	606-EC	Extra Weight, 2 pounds fold number 208-EC each	.20

*Used with doors on both sides of wall. NOTE—Always specify by number and state size of door.

Discount.....



No. 206 R-W Automatic Swinging Fire Door Fixtures for Tin Clad Single Doors



The above illustrated swing door hardware designed to meet the demand for a less expensive outfit than the Approved Labeled No. 406 Fixture illustrated on page 172.

This fixture will meet the requirements of Underwriters in certain territories.

The automatic link and cord arrangement on this fixture extends above the opening to ceiling and when used with doors on both sides of wall same extends through, so that the fusing of link on either side will cause the doors to close. When link fuses at 160 degrees Fahrenheit it releases the heavy weight, which drops onto the small weight and closes the door. The small weight merely maintains tension of chain. Fixtures furnished for either flush or lap doors.

PRICE LIST

The following price list includes a set of fixtures complete consisting of pintels, latches, latch keepers, hinge straps, automatic closing attachment, all bolts (except pintel bolts) for attaching hardware and heavy cast washers for pintels and latch keepers.

Wall bolts for pintels will be furnished at a moderate price if thickness of wall is given. State if doors are used on one or both sides of wall.

No. 206 Fixtures complete, for doors up to 7 ft. 3 in. high, (with 2 hinges), per set.....	\$16.00
No. 206 Fixtures complete, for doors 7 ft. 4 in. to 8 ft. 3 in. high, (with 3 hinges), per set..	17.50
No. 206 Fixtures complete, for doors 8 ft. 4 in. to 10 ft. 3 in. high, (with 4 hinges), per set..	19.00
No. 206 Fixtures, less hinges and pintels, per set.....	12.75
No. 206 Fixtures, less hinges, pintels and triple latch, per set.....	7.75

Weight—Complete set, about 90 pounds; fixtures only, 60 pounds.

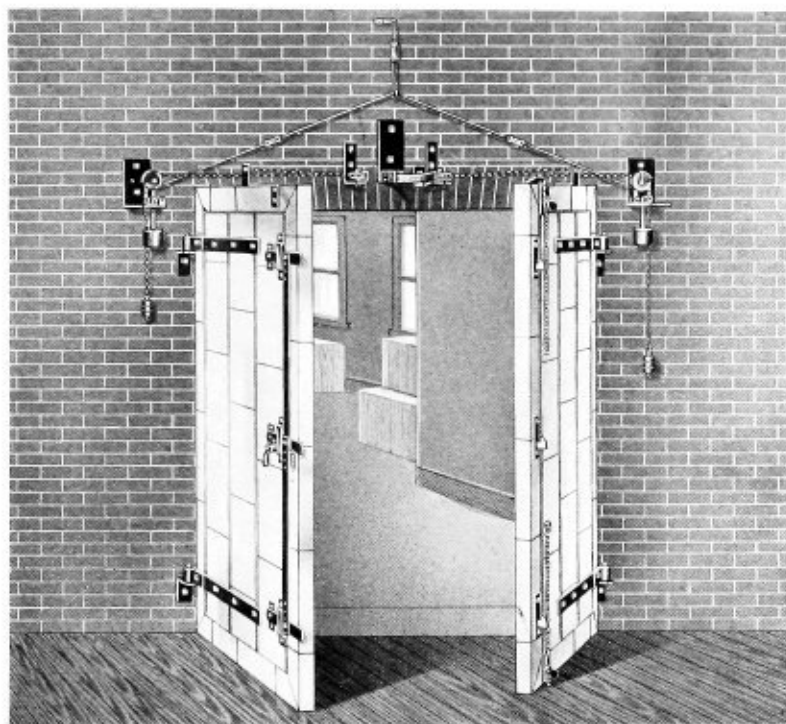
Discount.....

Directions for Ordering—See Page 148 and give all dimensions asked for. Unless otherwise specified on order, fixtures complete will be sent for doors up to 7 feet 3 inches high and 2½ inches thick.

Note—This fixture requires 9 inches of head-room above top of door and 10 inches of side-wall space beyond door on hinge side and 3½ inches on latch side.

Detail of parts shown on pages 178, 179. See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

No. 306 R-W Automatic Swinging Fire Door Fixtures for Tin Clad Double Doors



The above illustrated swing door hardware designed to meet the demand for a less expensive outfit than the Approved Labeled No. 506 Fixture illustrated on page 173.

This fixture will meet the requirements of Underwriters in certain territories.

The automatic link and cord arrangement on this fixture operates in the same manner as No. 206, illustrated on opposite page. The fixtures are so constructed that it is impossible for the wrong door to close first. Fixtures furnished for either flush or lap doors.

PRICE LIST

The following price list includes a set of fixtures complete, consisting of pintels, latches, latch keepers, hinge straps, automatic closing attachment, all bolts (except pintel bolts) for attaching hardware and heavy cast washers for pintels. Wall bolts for pintels will be furnished at a moderate price if thickness of wall is given. State if doors are used on one or both sides of wall.

No. 306 Fixtures complete, for doors up to 7 ft. 3 in. high, (with 4 hinges), per set.....	\$29.00
No. 306 Fixtures complete, for doors 7 ft. 4 in. to 8 ft. 3 in. high, (with 6 hinges), per set.....	32.00
No. 306 Fixtures complete, for doors 8 ft. 4 in. to 10 ft. 3 in. high, (with 8 hinges), per set.....	35.00
No. 306 Fixtures, less hinges and pintels, per set.....	23.00
No. 306 Fixtures, less hinges, pintels and triple latch, per set.....	18.00

Weight—Complete set, about 155 pounds; fixtures only, 100 pounds.

Discount.....

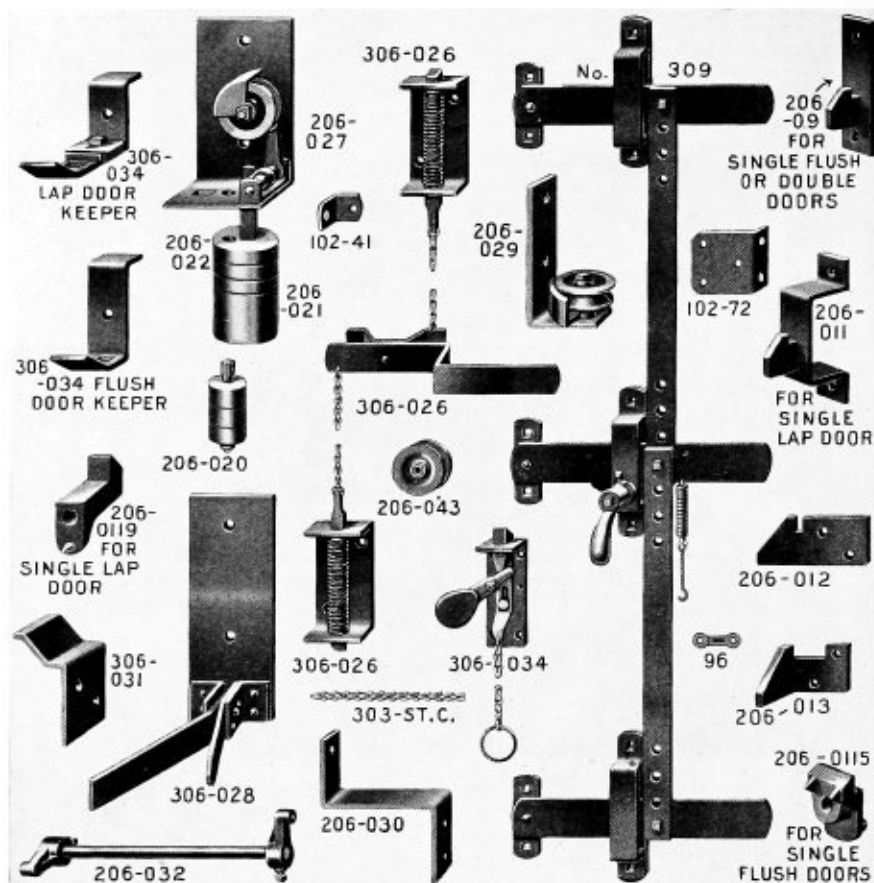
Directions for Ordering—See Page 148, and give all dimensions asked for.

State style of latch desired for standing door. No. 306-026 latch is attached to side of door which closes into the opening. No. 306-034, as shown in illustration, is attached to opposite side of door and requires a wider sill. Unless specified, No. 306-026 will be sent. Unless otherwise specified on order, fixtures complete will be sent for doors up to 7 feet 3 inches high and 2½ inches thick.

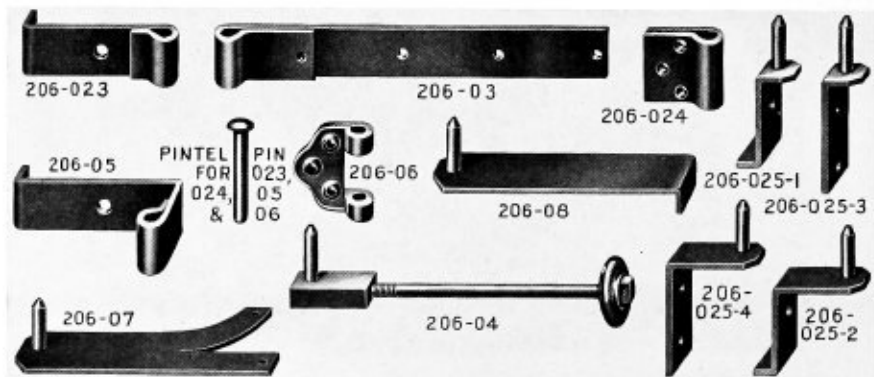
NOTE—This fixture requires 10 inches of head-room above top of door and 10 inches of side-wall space on each side of door.

Detail of parts shown on pages 178, 179. See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

Detail of Parts for Nos. 206 and 306 Swinging Fire Door Fixtures



Detail of Pintles and Hinge for Swing Fixtures





Price List

DETAIL OF PARTS FOR NOS. 206 AND 306 SWING FIRE DOOR FIXTURES,
ILLUSTRATED ON OPPOSITE PAGE

No. 206	No. 306	Number	DESCRIPTION	Price List
2	3	96	Fusible Link, each	\$.30
1	1	102-41	Rope Angle (old No. 207-041) each	.15
	2	102-72	Bumper Shoe, each	.10
3	3	206-09	Latch Keeper (single flush or double doors) each	.30
3	3	206-011	Latch Keeper (single lap doors) each	.60
3	3	206-012	Latch Keeper (single flush doors) each	.40
3	3	206-013	Latch Keeper (single flush doors, made R. and L.) each	.40
			Illustration opposite shows keeper for left hand door.	
1	2	206-020	Weight (3 small) with weight holder, each	.30
1	2	206-021	Master Weight, 7 pounds, each	.75
2	4	206-022	Extra Weight, 2 pounds, each	.20
1	2	206-027	Pulley and Trip, each	1.50
1	2	206-029	Chain Pulley, each	1.50
1	2	206-030	Chain Angle, each	.25
*	*	206-032	Shaft and Cranks for connecting through wall, each	.60
1		206-043	Center Pulley with Bushing, each	.25
3	3 ft specified	206-0115	Latch Keeper (single flush or double doors) each	.15
3		206-0119	Latch Keeper for 3-ply (2½") or 2-ply (1½") (single lap doors) each	.20
20 ft.	35 ft.	303-ST. C	No. 2 Steel Sash Chain, per foot	.10
	1	306-026	Inside Latch (for standing door) complete, each	2.50
	1	306-028	Door Control, each	1.50
	1	306-031	Door Control Lifter, each	.25
	1 ft specified	306-034	Top and Bottom Latch (with flush or lap door keepers) complete, each	2.50
1	1	309	Triple Latch, (with flush or lap door keepers) complete, each	5.00

*Used with doors on both sides of wall.

Discount.....

Price List

DETAIL OF PINTELS AND HINGES FOR NOS. 206 AND 306 SWING FIRE DOOR FIXTURES
ILLUSTRATED ON OPPOSITE PAGE

Underwriters require hinges to cover three-fourths the width of door. All hinge straps are made of 2½x½-inch steel.

Number	DESCRIPTION	Price List
206-03	Hinge Straps, 18-inch or under, per pair	\$1.00
206-03	Hinge Straps, 24-inch, per pair	1.20
206-03	Hinge Straps, 30-inch, per pair	1.50
206-03	Hinge Straps, 36-inch, per pair	1.80
206-03	Hinge Straps, 42-inch, per pair	2.10
206-03	Hinge Straps, 48-inch, per pair	2.40
206-04	Hinge Pintels for 12-inch wall or under (Flush or Lap doors) per pair	2.00
206-04	Hinge Pintels for 18-inch wall (Flush or Lap doors) per pair	2.20
206-04	Hinge Pintels for 24-inch wall (Flush or Lap doors) per pair	2.40
206-05	Hinge Pintels with pintel pins (Lap doors) per pair	1.20
*206-06	Hinge Pintels with pintel pins (Flush doors) per pair	1.20
206-07	Hinge Pintels (Flush or Lap doors) per pair	1.50
206-08	Hinge Pintels (Flush or Lap doors) per pair	1.00
206-023	Hinge Pintels with pintel pins (Flush doors) per pair	1.20
*206-024	Hinge Pintels with pintel pins (Flush doors) per pair	1.80
206-025-1	Hinge Pintels (old No. B25-1) (Flush doors) per pair	1.00
206-025-2	Hinge Pintels (old No. B25-2) (for 3-ply (2½") or 2-ply (1½") Lap doors) per pair	1.25
*206-025-3	Hinge Pintels (old No. B25-3) (Flush doors) per pair	1.00
*206-025-4	Hinge Pintels (old No. B25-4) (for 3-ply (2½") or 2-ply (1½") Lap doors) per pair	1.25

NOTE—Always specify by number and state size of door.

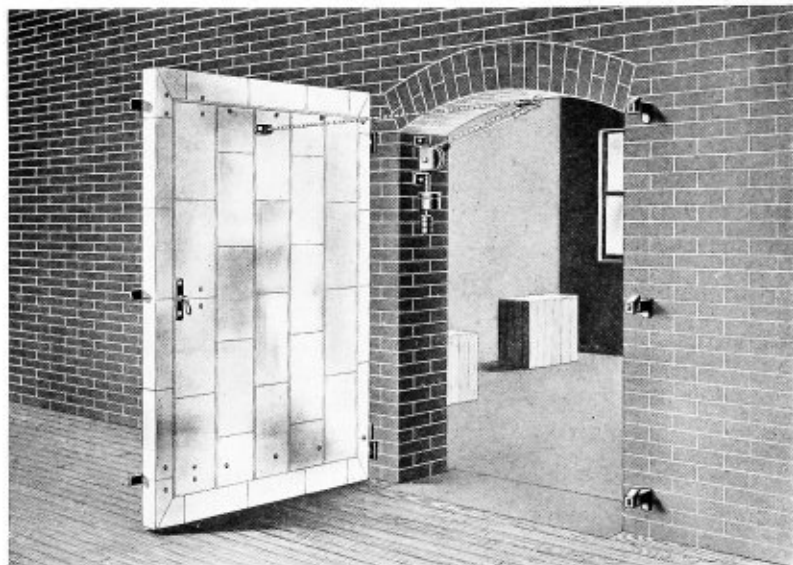
Discount.....

*No. 206-06, No. 206-024, No. 206-025 No. 3 and No. 206-025 No. 4 Pintels are used with angle iron frames.



No. 606 R-W Automatic Swinging Fire Door Fixtures for Tin Clad Single Doors

(WILCOX No. 208)



The above illustrated swing door hardware is designed to meet the demand for an inexpensive outfit and will meet the requirements of Underwriters in certain territories.

This fixture is particularly adaptable where conditions do not permit the attaching of pulleys on the wall on account of insufficient head-room and lack of space between door and adjoining wall. When link fuses at 160 degrees Fahrenheit it releases the heavy weight, which drops onto the small weight and closes the door. The small weight merely maintains tension of chain.

To conform strictly to Underwriters' requirements, triple bar latch is always furnished.

*Single bar latch can be furnished on application. Fixtures furnished for either flush or lap doors.

PRICE LIST

The following price list includes a set of fixtures complete, consisting of pintels, latches, latch keepers, hinge straps, automatic closing attachment, all bolts (except pintel bolts) for attaching hardware and heavy cast washers for pintels and latch keepers.

Wall bolts for pintels will be furnished at a moderate price if thickness of wall is given. State if doors are used on one or both sides of wall.

No. 606 Fixtures complete, for doors up to 7 ft. 3 in. high, (with 2 hinges), per set.....	\$12.00
No. 606 Fixtures complete, for doors 7 ft. 4 in. to 8 ft. 3 in. high, (with 3 hinges), per set..	14.00
No. 606 Fixtures complete, for doors 8 ft. 4 in. to 10 ft. 3 in. high, (with 4 hinges), per set..	16.00
No. 606 Fixtures, less hinges and pintels, per set.....	9.00
No. 606 Fixtures, less hinges, pintels and triple latch, per set.....	4.00

Discount.....

*If single bar latch is desired instead of triple latch, deduct \$4.00 from list price of fixtures complete.

Weight—Complete set, about 80 pounds; fixtures only, 50 pounds.

Directions for Ordering—See Page 148, and give all dimensions asked for.

Unless otherwise specified on order, fixtures complete will be sent for doors up to 7 feet 3 inches high and 2½ inches thick.

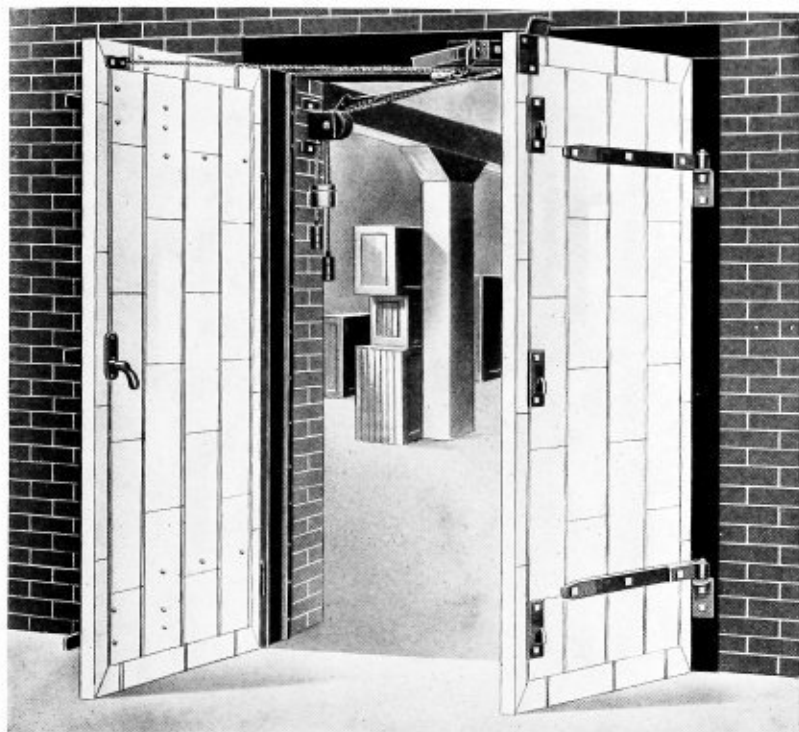
NOTE—This fixture requires no head-room above top of door and only 3½ inches of side-wall space on each side of door.

Detail of parts shown on pages 182, 183. See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.



No. 706 R-W Automatic Swinging Fire Door Fixtures for Tin Clad Double Doors

(Wilcox No. 208½)



The above illustrated swing door hardware is designed to meet the demand for an inexpensive outfit and will meet the requirements of Underwriters in certain territories.

This fixture is particularly adaptable where conditions do not permit the attaching of pulleys on the wall on account of insufficient head-room and lack of space between door and adjoining wall. The automatic link and cord arrangement are the same as No. 606, illustrated on op-

posite page, excepting that it is for double doors. Fixture is so constructed that it is impossible for the wrong door to close first. To conform strictly to Underwriters' requirements, triple bar latch is always furnished. *Single bar latch can be furnished on application. Fixtures furnished for either flush or lap doors.

PRICE LIST

The following price list includes a set of fixtures complete, consisting of pintels, latches, latch keepers, hinge straps, automatic closing attachment, all bolts (except pintel bolts) for attaching hardware and heavy cast washers for pintels and latch keepers.

Wall bolts for pintels will be furnished at a moderate price if thickness of wall is given. State if doors are used on one or both sides of wall.

No. 706 Fixtures complete, for doors up to 7 ft. 3 in. high, (with 4 hinges), per set.....	\$25.00
No. 706 Fixtures complete, for doors 7 ft. 4 in. to 8 ft. 3 in. high, (with 6 hinges), per set..	27.50
No. 706 Fixtures complete, for doors 8 ft. 4 in. to 10 ft. 3 in. high, (with 8 hinges), per set..	30.00
No. 706 Fixtures, less hinges and pintels, per set.....	20.00
No. 706 Fixtures, less hinges, pintels and triple latch, per set.....	15.00

Discount.....

*If single bar latch is desired instead of triple latch, deduct \$4.00 from list price of fixtures complete.

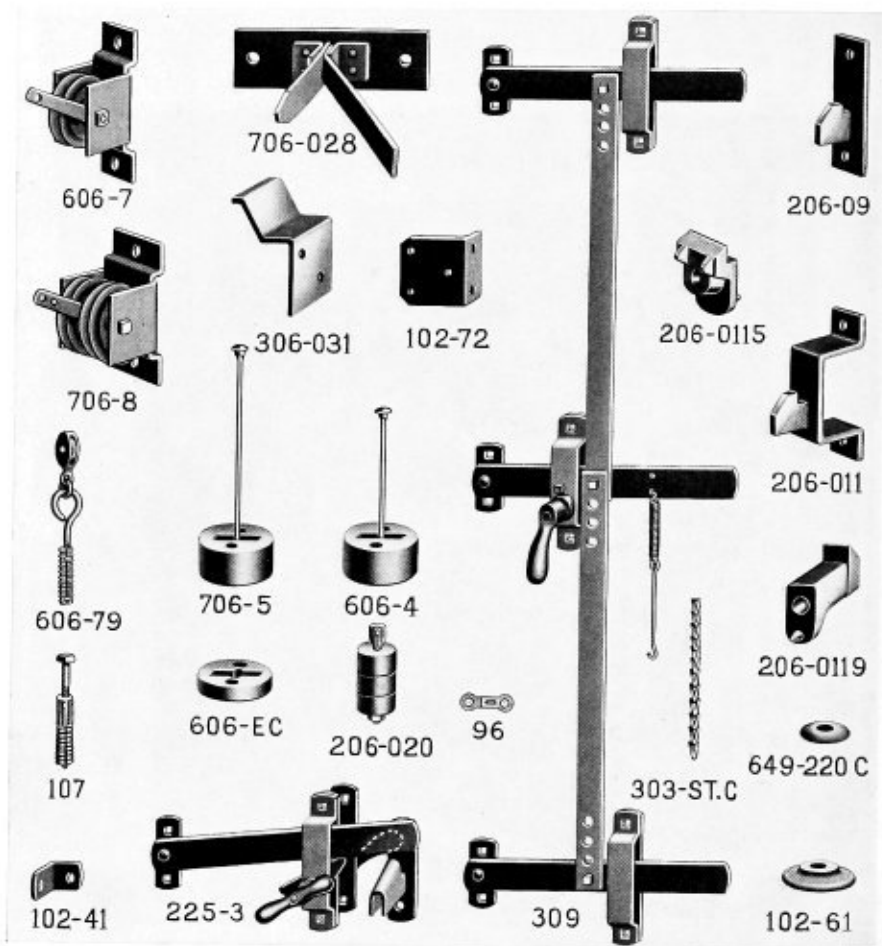
Weight—Complete set, about 110 pounds; fixtures only, 60 pounds.

Directions for Ordering—See Page 148, and give all dimensions asked for. Unless otherwise specified on order, fixtures complete will be sent for doors up to 7 feet 3 inches high and 2½ inches thick.

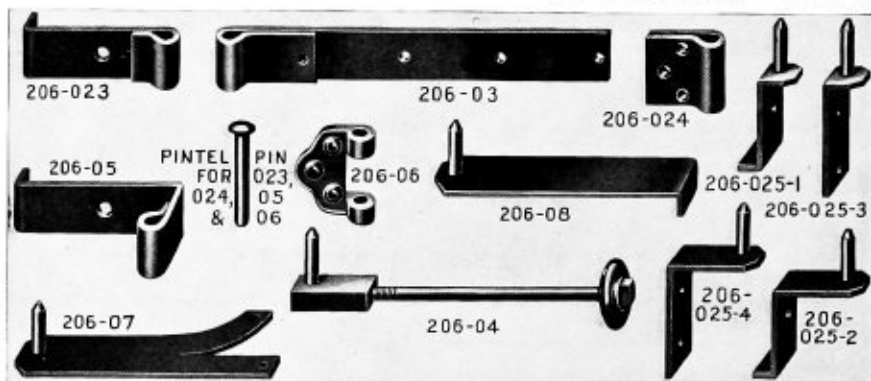
NOTE—This fixture requires 3½ inches head-room above top of door and only 3½ inches of side-wall space on each side of door.

Detail of parts shown on pages 182, 183. See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

Parts for Nos. 606 and 706 Swinging Fire Door Fixtures



DETAIL OF PINTELS AND HINGE FOR SWING FIXTURES



Price List

DETAIL OF PARTS FOR NOS. 606 AND 706 SWING FIRE DOOR FIXTURES, ILLUSTRATED ON OPPOSITE PAGE

No. 606	No. 706	Number	DESCRIPTION—PARTS	Price List
		96	Fusible Link, each	\$.50
1	2	102-41	Rope Angle fold No. 208-W3) each	.15
		102-61	Cast Washer (for pintel bolts) each	.15
	1	102-72	Bumper Shoe, each	.10
10 ft.	20 ft.	102-8C	No. 7 Sash Cord, per foot	.05
2	2	107	Expansion Bolt, 3/45 inches, each	.20
	3	206-09	Latch Keeper (for double doors) each	.70
1	2	206-020	Weight (3-small) with weight holder, each	.50
3		206-0115	Latch Keeper (for single flush doors) each	.15
3		206-0119	Latch Keeper (for 3-ply (2 1/2") or 2-ply (1 1/2") Single Lap Doors, each	.20
*When	specified	225-3	Single Latch, fold No. W150) complete, each	1.00
10 ft.	20 ft.	303-ST.C	No. 2 Steel Sash Chain, fold No. W15) per foot	.10
1	1	309	Triple Latch (with flush or lap door keepers) complete, each	5.00
1		606-4	Heavy Weight, 5 1/2 pounds, fold No. 208-W4) each	.60
1		606-7	Pulley and Trip fold No. 208-W7) each	1.50
1	2	606-79	Expansion Screw Eye with Pulley fold No. 208-W79 and W14) each	.25
1	5	606-8C	Extra Weight, 2 pounds, each	.20
		649-220C	Cast Washer for Keeper Bolts, each	.10
	1	706-5	Heavy Weight, 5 1/2 pounds (fold No. 208-W5) each	.60
	1	706-8	Pulley and Trip (fold No. 208-W8) each	2.00
	1	706-028	Door Control, each	1.50
	1	206-091	Door Control Lifter, each	.25
5		206-011	Latch Keeper (for single lap doors) each	.60

*NOTE—Keeper shown with latch in cut is used only for double doors.

Discount.....

Number	DESCRIPTION—PINTELS AND HINGES	Price List
206-03	Hinge Straps, 18-inch or under, per pair	\$1.00
206-03	Hinge Straps, 24-inch, per pair	1.20
206-03	Hinge Straps, 30-inch, per pair	1.50
206-03	Hinge Straps, 36-inch, per pair	1.80
206-03	Hinge Straps, 42-inch, per pair	2.10
206-03	Hinge Straps, 48-inch, per pair	2.40
206-04	Hinge Pintels for 12-inch wall or under (Flush or Lap doors) per pair	2.00
206-04	Hinge Pintels for 18-inch wall (Flush or Lap doors) per pair	2.20
206-04	Hinge Pintels for 24-inch wall (Flush or Lap doors) per pair	2.40
206-05	Hinge Pintels with pintel pins (Lap doors) per pair	1.20
*206-06	Hinge Pintels with pintel pins (Flush doors) per pair	1.20
206-07	Hinge Pintels (Flush or Lap doors) per pair	1.50
206-08	Hinge Pintels (Flush or Lap doors) per pair	1.00
206-023	Hinge Pintels with pintel pins (Flush doors) per pair	1.20
*206-024	Hinge Pintels with pintel pins (Flush doors) per pair	1.50
206-025-1	Hinge Pintels (fold No. B25-1) (Flush doors) per pair	1.00
206-025-2	Hinge Pintels (fold No. B25-2) (for 3-ply (2 1/2") or 2-ply (1 1/2") Lap doors) per pair	1.25
*206-025-3	Hinge Pintels (fold No. B25-3) (Flush doors) per pair	1.00
*206-025-4	Hinge Pintels (fold No. B25-4) (for 3-ply (2 1/2") or 2-ply (1 1/2") Lap doors) per pair	1.25

NOTE—Always specify by number and state size of door.

Discount.....

Hinges must cover three-fourths the width of door. All hinge straps are made of 2 1/2x3-inch steel.

*No. 206-06, No. 206-024, No. 206-025 No. 3 and No. 206-025 No. 4 Pintels are used with angle iron frames.

Sectional Views of Over-Lap, Flush and Rabbetted Flush Tin-Clad Doors

UNLESS OTHERWISE SPECIFIED IT IS UNDERSTOOD THAT DOORS ARE 2 1/2 INCHES THICK



PLAN OF LAP DOOR

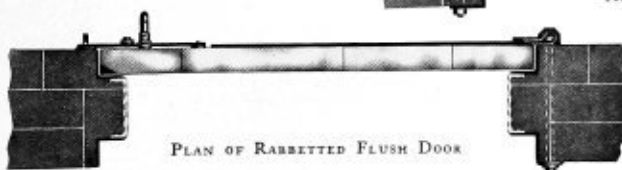
A flush door with angle iron frame and swing fixtures, using No. 206-03 hinge, 206-09 keeper, 206-025 No. 3 pintel and 309 triple latch.



PLAN OF FLUSH DOOR WITH ANGLE IRON FRAME

An overlap door with swing fixtures using No. 206-03 hinge, 206-04 pintel, 206-011 keeper and 309 triple latch.

A rabbetted flush door with swing fixtures, using No. 206-03 hinge, 206-09 keeper, 206-025 No. 1 pintel and 309 triple latch.

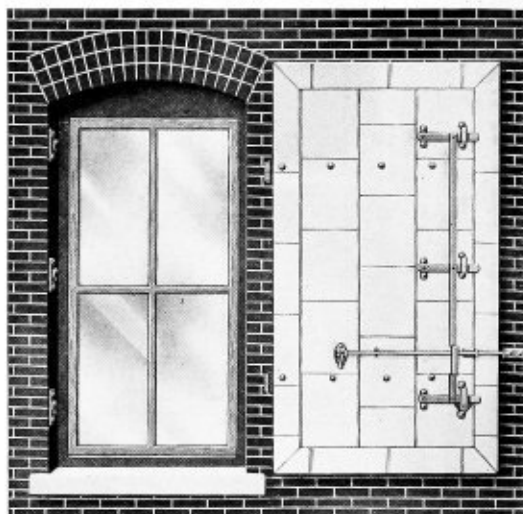


PLAN OF RABBETTED FLUSH DOOR



No. 307 R-W Swinging Fire Shutter Fixtures for Single Tin Clad Shutters

Fire Shutters are one of the greatest protections against fire that can be applied to a building, and all buildings within the reach of a possible fire from other buildings should be equipped with fire shutters. These fixtures designed to meet the requirements of Underwriters, for protecting window openings.



FOR PRICE LIST, SEE TABLE BELOW

No. 407 R-W Swinging Fire Shutter Fixtures for Double Tin Clad Shutters

PRICE LIST

The following price list includes a set of fixtures complete, consisting of hinges, pintels, latches, latch keepers, hinge straps and all bolts (except pintel bolts) for attaching hardware to shutter.

Wall bolts for pintels will be furnished at a moderate price if thickness of wall is given.

	No. 307	No. 407
Fixtures complete, for shutters up to 7 ft. 3 in. high, (with double latch), per set.	\$6.50	\$10.80
Fixtures complete, for shutters 7 ft. 4 in. to 8 ft. 3 in. high, (with triple latch), per set	8.90	14.25

Discount.....

NOTE—Underwriters require three hinges on shutters over 7 feet 4 inches in height and to cover three-fourths of the width of each shutter.

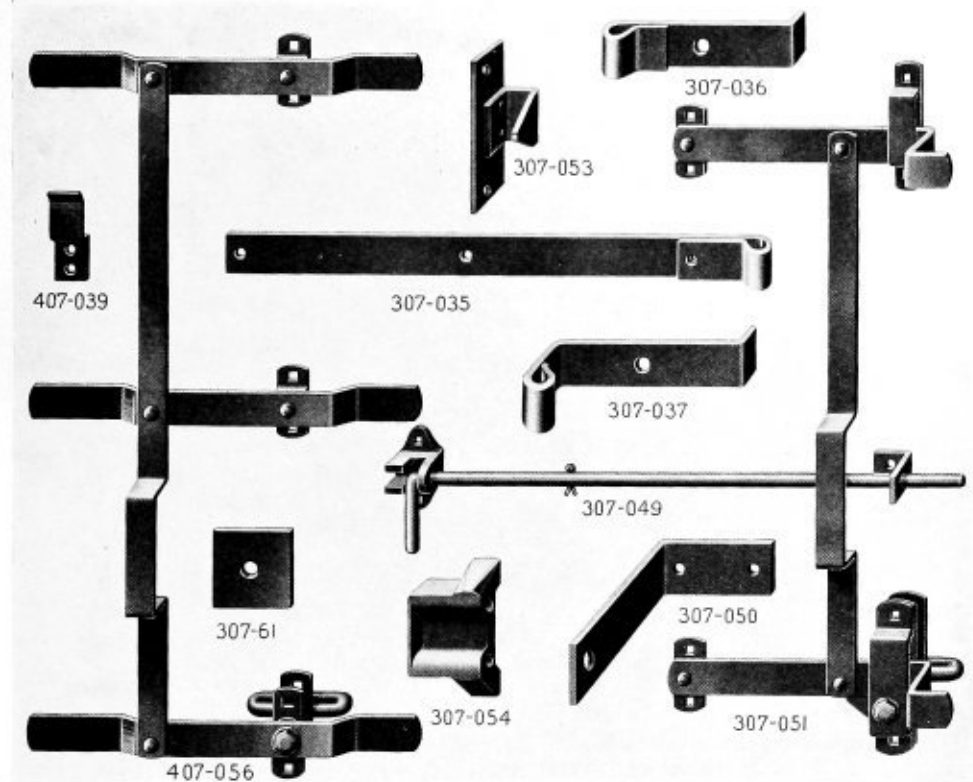
Weights—No. 307 complete with double latch, about 45 pounds; with triple latch, 50 pounds. No. 407 complete with double latch, about 60 pounds; with triple latch, 65 pounds.

Directions for Ordering—See Page 148, and give all dimensions asked for.

NOTE—Unless otherwise specified on order, fixtures complete will be sent for shutters up to 7 feet 3 inches high and 17 inches thick. Detail of parts shown on opposite page.

See page 189 for Standard Approved and Labeled Tin-Clad Fire Shutters.

Detail of Parts for Nos. 307 and 407 R-W Swinging Fire Shutter Fixtures



PRICE LIST

DETAIL OF PARTS FOR NOS. 307 AND 407 SWING FIRE SHUTTER FIXTURES
ILLUSTRATED ABOVE

Underwriters require hinges to cover three-fourths the width of shutter. Hinge straps are made of 1½x½-inch steel

Number	DESCRIPTION	Price List
307-035	Hinge Straps, 18 inches or under, per pair	\$1.10
307-035	Hinge Straps, 24 inches long, per pair	1.20
307-035	Hinge Straps, 30 inches long, per pair	1.30
307-035	Hinge Straps, 36 inches long, per pair	1.40
307-036	Pintel with pintel pin (for flush shutters) per pair	1.40
307-037	Pintel with pintel pin (for lap shutters) per pair	1.00
307-049	Stay Rod, each	1.00
307-050	Stay Rod Keeper, each	.50
307-051	Double Latch, with No. 307-053 or 054 Keepers complete, each	2.50
307-052	Triple Latch, with No. 307-053 or 054 Keepers complete, each	3.50
307-053	Keeper (for single lap shutter) each	.60
307-054	Keeper (for single flush shutter) each	.60
307-61	Square Steel Washer for pintel bolts, each	.15
407-039	Latch Bar Keeper (double shutter) each	.30
407-055	Double Latch, with No. 407-039 Keeper (double lap or flush shutter) complete, each	2.50
407-056	Triple Latch, with No. 407-039 Keeper (double lap or flush shutter) complete, each	3.50

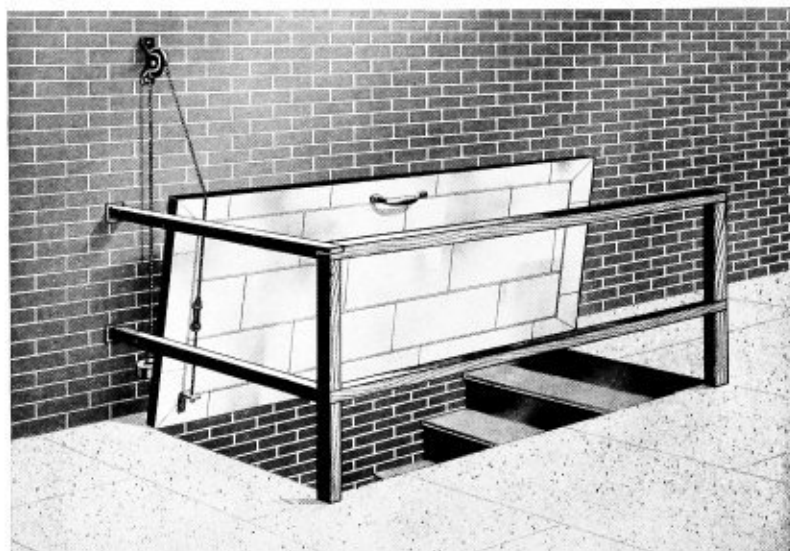
NOTE—Always specify by number and state size of shutters.

Discount.....



No. 212 R-W Automatic Trap Fire Door Fixtures

(WILCOX No. 212)



This fixture specified and endorsed by Underwriters is applicable to trap fire doors. When open, the door is counter-balanced by the weight and when link fuses door closes by gravity.

The arrangement shown in cut is suitable for ordinary doors, but for heavy doors a double pulley and an extra set of balance weights should be used, as the link would not sustain the entire weight. Twelve pounds of weights furnished with single pulley sets; twenty-one pounds with double pulley sets. Weight, fixtures, per set, single, twenty-two pounds; double, thirty-seven pounds.

PRICE LIST

The following price list includes a set of fixtures complete, consisting of rope, pulleys, weights, sash cord and all bolts for attaching hardware to door and wall.

Hinges are not included, but will be furnished at a moderate price if width and thickness of door is given and the material of which same is constructed.

No. 212 Fixtures complete, with single pulley, (less hinges), per set.....	\$4.10
No. 212 Fixtures complete, with double pulley, (less hinges), per set.....	5.50

Discount.....

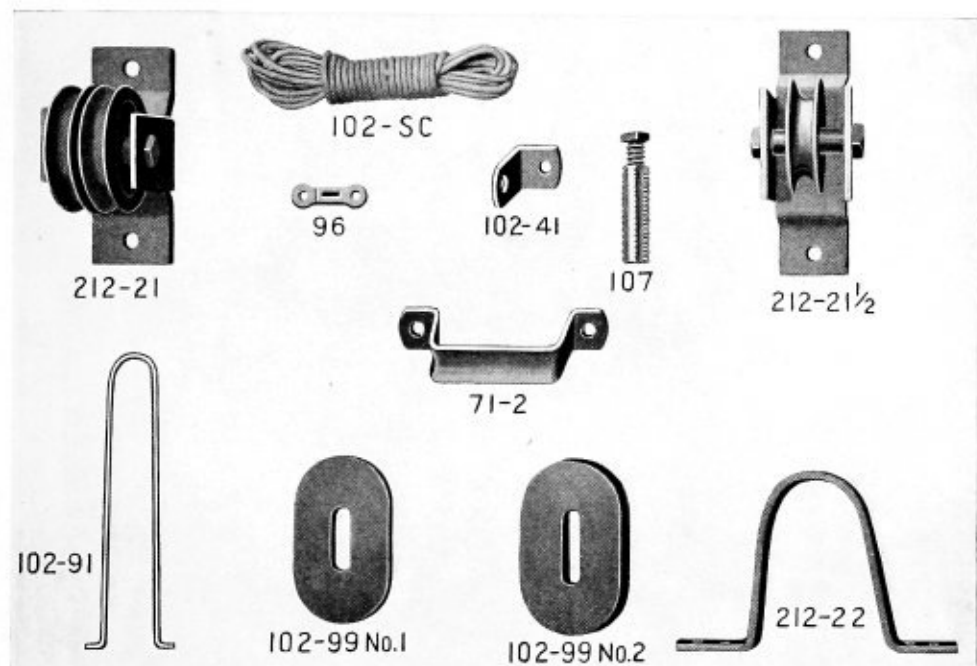
Directions for Ordering—State width, height and thickness of door, also material of which same is constructed, and weight.

When hinges are desired, give above dimensions and state if same are to be attached to floor or side wall, and in either case the material of which same is constructed.

NOTE—Unless otherwise specified on order, fixtures complete will be sent with a single pulley. Detail of parts shown on opposite page.

See page 189 for Standard Approved and Labeled Tin-clad Fire Doors.

Detail of Parts for No. 212 R-W Automatic Trap Fire Door Fixtures



Number	DESCRIPTION	Price List
71-2	Steel Handle, each	\$.15
96	Fusible Link, each	.30
102-41	Rope Angle (old No. 3) each	.15
102-91	Weight Holder (old No. 72) each	.15
102-99-1	Light Weight, 3 pounds, each	.25
102-99-2	Heavy Weight, 9 pounds, each	.75
102-SC	No. 7 Sash Cord, per foot	.05
107	Expansion Bolt, ½x5 inches, each	.20
212-21	Double Pulley, (old No. 21) each	1.50
212-21½	Single Pulley, (old No. 21½) each	1.25
212-22	Back Stop for door, (old No. 22) each	.50

NOTE—Always specify by number and state size of door.

Discount.....



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



Nos. 96 and 96½ R-W Fusible Link for Fire Doors

EACH LINK STAMPED 160 DEGREES



FULL SIZE CUT No. 96



FULL SIZE CUT No. 96½

These fusible links are used for fire door fixtures and are adapted for use on all doors and windows, which are constructed to close automatically by heat. These links melt at 160 degrees Fahrenheit.

PRICE LIST

No. 96 Fusible Link, each.....	\$.30
No. 96½ Fusible Link, each.....	.20

Discount.....



R-W Standard Tin Clad Fire Doors and Shutters

APPROVED AND LABELED BY NATIONAL BOARD OF FIRE UNDERWRITERS AFTER
EXHAUSTIVE TESTS BY THE UNDERWRITERS' LABORATORIES, (INC.).



Standard three-ply ($2\frac{3}{8}$ -inch) Doors are made of three thicknesses of boards, dressed to 13/16 inch full, the outside layers vertical and inner layer horizontal; thoroughly fastened together by wrought iron clinch nails not over 8 inches apart, extending clear through the door and clinched on the back side, leaving both surfaces of the door smooth; double lock joints in the tin covering as required under the rules of the National Board of Fire Underwriters. Weight, 8 pounds per square foot.

Standard two-ply ($1\frac{3}{4}$ -inch) Doors are made of two thicknesses of boards, dressed to 13/16 inch full, with one layer vertical and one horizontal; thoroughly fastened together by wrought iron clinch nails not over 8 inches apart, extending clear through the door and clinched on the back side, leaving both surfaces of the door smooth; double lock joints in the tin covering as required under the rules of the National Board of Fire Underwriters. Weight, 6 pounds per square foot.

Standard Fire Shutters are made in the same manner as two-ply ($1\frac{3}{4}$ -inch) doors and are of the same thickness.

Standard Fire Shutters are used on the outside of buildings to protect window openings.

PRICE LIST

Standard three-ply ($2\frac{3}{8}$ -inch) Fire Doors, square or incline top, per square foot.....	\$.90
Standard two-ply ($1\frac{3}{4}$ -inch) Fire Doors, square or incline top, per square foot.....	.80
Standard Fire Shutters, square or arched top, per square foot.....	.80

Discount.....

Directions for Ordering—State following: *First*—If openings are square or arched top. *Second*—If doors are incline or square top. *Third*—If doors or shutters are flush with or overlap the opening. *Fourth*—If doors slide or swing. *Fifth*—If they are used single or in pairs. *Sixth*—If they are used on fire-wall, vertical shaft, corridor or room partition, exterior wall or an opening on to fire escape.

NOTE—Always specify where door will be used, so that we can attach the proper Underwriters' label with number.

New "Diamond N" Expansion Shields



No. 107 New "Diamond N" Expansion Bolt



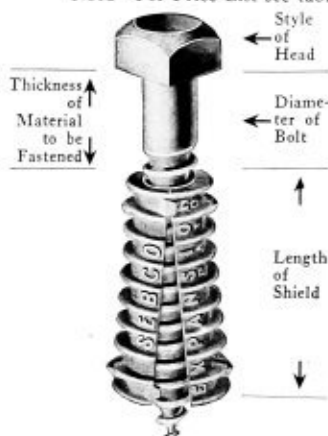
NOTE—For Price List see table below. Unless otherwise specified on order Long Standard Shields only will be sent.

No. W-206

"Sebco" Expansion Shields



"Sebco" Expansion Bolts



This illustration given here shows how to determine the measurements of the lag screw type with shield.

NOTE—Unless otherwise specified on order Long Standard Shields only, will be sent.

PRICE LIST—NO. 107 OR NO. W-206

SHIELDS ONLY, PER 100—TWO-PART MALLEABLE—BASED ON DIAMETER OF SCREW

Diameter of Lag Screw	$\frac{1}{4}$ inch	$\frac{3}{8}$ inch	$\frac{1}{2}$ inch	$\frac{3}{4}$ inch	1 inch	1 $\frac{1}{4}$ inch	1 $\frac{1}{2}$ inch	1 $\frac{3}{4}$ inch	2 inch	2 $\frac{1}{2}$ inch
Price	\$9.40	10.50	13.35	17.75	22.00	27.80	39.95	53.30	66.60	100.00
Length of Shield—Long Standard	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	5	5	8
Length of Shield—Short Standard	1	1 $\frac{1}{2}$	2	2	2	2	2	3	3	5
Outside Diameter of Shield	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Diameter of drill required for No. 107	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Diameter of drill required for No. W206	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$

NOTE—In ordering state whether Diamond N or Sebco Shields are wanted, also specify by number, stating size and if Long or Short Standard are desired.

Discount.....

SHIELDS, WITH SQUARE HEAD BOLTS, PER 100

Length	DIAMETER OF LAG SCREW									
	$\frac{1}{4}$ -inch	$\frac{3}{8}$ -inch	$\frac{1}{2}$ -inch	$\frac{3}{4}$ -inch	1-inch	1 $\frac{1}{4}$ -inch	1 $\frac{1}{2}$ -inch	1 $\frac{3}{4}$ -inch	2-inch	2 $\frac{1}{2}$ -inch
1 $\frac{1}{2}$ inches	\$10.13	\$11.60								
2 inches	10.85	11.65								
2 $\frac{1}{2}$ inches	11.00	11.85	\$15.90	\$20.30	\$24.15	\$31.70	\$48.30			
3 inches	11.25	12.00	16.10	20.50	24.45	32.10	48.85			
4 inches	11.50	12.35	16.40	20.80	25.35	32.90	50.00			
5 inches	11.85	12.65	16.90	21.15	25.90	33.75	51.05			
6 inches	12.20	13.00	17.35	21.50	26.45	34.60	52.20	\$68.90	\$79.55	
7 inches		13.30	17.65	21.80	27.00	35.40	53.30	70.00	81.65	
8 inches			18.00	22.15	27.55	36.25	54.45	71.10	83.70	\$174.45
9 inches				22.50	28.10	37.10	55.55	72.20	85.75	181.10
10 inches						37.95	56.65	73.30	87.75	187.75
11 inches						38.80	57.75	74.40	89.90	194.45
12 inches						39.60	58.90	75.55	92.00	201.10

In figuring lists for longer bolts than those given above, make same advance per inch as on list. Ten per cent extra for hexagon heads.
NOTE—Drills for above shields shown on page 193. Instructions for using shown on opposite page.

Discount.....



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



SEE THAT BULB, PATENTED



No. 107 $\frac{1}{2}$ Diamond Screw Anchors

NOTE—FOR PRICE LIST, SEE TABLE BELOW



No. W-206 $\frac{1}{2}$ "Sebco" Screw Anchors



Screw anchors are made of Composition Metal in one piece, and are so constructed that the screw cuts its own thread. This enables its use with any wood, machine or special screw, its efficiency with all styles being equal.

Will not break, chip, mark or deface the finest marble or tile. The Lead Composition is non-rusting. Adapted especially for plumbing and electrical work on tile, marble or stone.

Price List—No. 107 $\frac{1}{2}$ or No. W-206 $\frac{1}{2}$

(SCREWS ARE NOT INCLUDED IN FOLLOWING PRICE LIST)

Size	Screw No.	Length of Shield Inches	Outside Diameter Inches	Price per 100
$\frac{1}{8}$ x $\frac{3}{4}$ inches	5- 6- 7	$\frac{3}{4}$	$\frac{1}{4}$	\$4.40
$\frac{1}{8}$ x $\frac{1}{2}$ inches	5- 6- 7	$\frac{3}{4}$	$\frac{1}{4}$	4.40
$\frac{1}{8}$ x $\frac{1}{4}$ inches	8- 9-10-11	$\frac{3}{4}$	$\frac{1}{4}$	5.00
$\frac{1}{8}$ x 1 inches	8- 9-10-11	1	$\frac{1}{4}$	5.00
$\frac{1}{8}$ x $\frac{1}{2}$ inches	12-13-14	$\frac{3}{4}$	$\frac{1}{4}$	5.60
$\frac{1}{8}$ x $\frac{1}{4}$ inches	12-13-14	$\frac{3}{4}$	$\frac{1}{4}$	5.60
$\frac{1}{8}$ x 1 inches	12-13-14	1	$\frac{1}{4}$	5.60
$\frac{1}{8}$ x $\frac{1}{2}$ inches	15-16-17-18	$\frac{3}{4}$	$\frac{1}{4}$	6.25
$\frac{1}{8}$ x 1 inches	15-16-17-18	1	$\frac{1}{4}$	6.25
$\frac{1}{8}$ x $\frac{1}{2}$ inches	15-16-17-18	$\frac{1}{2}$	$\frac{1}{4}$	7.50

Put up 100 in a box.

Discount.....

NOTE—All list prices given in previous catalogues are void. In ordering, always specify by number and give both dimensions.

NOTE—Drills for above screw anchors shown on page 193.

Instruction for Using

NO. 107 AND NO. 206 EXPANSION SHIELDS AND BOLTS

Drill a hole the same size as the given outside diameter of the shield to be used, place the shield in wall and set well back.



Run the Screw through the material or article to be fastened, then into the inserted Shield and fasten tight.



TO USE NO. 107 $\frac{1}{2}$ AND NO. 206 $\frac{1}{2}$ SCREW ANCHORS

Drill a hole the same size as given outside diameter of Anchor to be used.

Insert the Anchor flush with the surface; put the Screw through the article or material to be attached, then on into the Anchor and fasten tight. The Anchor is made of soft lead composition; the Screw when forced through the Anchor cuts its own thread.



No. 108

Keystone Double Machine
Expansion Shields

FOR MACHINE BOLTS

Keystone Double Machine
Expansion Bolt

Shield above illustrated is the double expansion type, and is far superior to the single type, as it gives a parallel expansion. These are especially recommended for fastening into brick or cement, when Machine Bolts are preferred to our Standard Lag Screw Shields.

Price List

SHIELDS ONLY, PER 100

Diameter of Bolt	$\frac{1}{4}$ inch	$\frac{5}{16}$ inch	$\frac{3}{8}$ inch	$\frac{7}{16}$ inch	$\frac{1}{2}$ inch	$\frac{5}{8}$ inch	$\frac{3}{4}$ inch	$\frac{7}{8}$ inch	1 inch	1 $\frac{1}{8}$ inch	1 $\frac{1}{4}$ inch	1 $\frac{1}{2}$ inch
Price per 100	\$8.00	9.00	11.00	15.00	18.00	24.00	35.00	44.00	63.00	140.00	150.00	220.00
Length of Shield	1 $\frac{1}{2}$	1 $\frac{7}{8}$	2 $\frac{3}{8}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{1}{4}$	4	4 $\frac{3}{4}$	5	6 $\frac{1}{4}$	6 $\frac{1}{4}$	7 $\frac{1}{2}$
Size Hole to Receive Expansion	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{3}{8}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{2}$
Diam. of Drill Required	$\frac{1}{2}$	$\frac{5}{16}$	$\frac{11}{16}$	$\frac{3}{8}$	$\frac{7}{8}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	2 $\frac{1}{2}$

SHIELDS, WITH SQUARE HEAD MACHINE BOLTS, PER 100

Length	DIAMETER											
	$\frac{1}{4}$ -inch	$\frac{5}{16}$ -inch	$\frac{3}{8}$ -inch	$\frac{7}{16}$ -inch	$\frac{1}{2}$ -inch	$\frac{5}{8}$ -inch	$\frac{3}{4}$ -inch	$\frac{7}{8}$ -inch	1-inch	1 $\frac{1}{8}$ -inch	1 $\frac{1}{4}$ -inch	1 $\frac{1}{2}$ -inch
1 $\frac{1}{2}$ inches	\$8.95											
2 inches	9.00	\$10.00										
2 $\frac{1}{2}$ inches	9.05	10.05	\$12.40									
3 inches	9.10	10.10	12.50	\$16.60	\$20.00							
3 $\frac{1}{2}$ inches	9.15	10.15	13.00	16.80	20.15	\$27.25						
4 inches	9.20	10.20	13.70	17.00	20.20	27.50	\$40.00					
4 $\frac{1}{2}$ inches	9.25	10.25	13.80	17.25	20.45	27.75	40.30					
5 inches	9.30	10.30	13.90	17.50	20.60	28.00	40.60	\$52.00				
5 $\frac{1}{2}$ inches	9.35	10.35	14.00	17.75	20.75	28.25	40.90	52.43	\$74.45			
6 inches	9.40	10.40	14.10	18.00	20.90	28.50	41.20	52.86	75.00			
6 $\frac{1}{2}$ inches			14.20	18.10	21.05	28.75	41.50	53.29	75.55			
7 inches			14.30	18.20	21.20	29.00	41.80	53.72	76.10	\$172.00	\$192.00	\$284.00
7 $\frac{1}{2}$ inches			14.40	18.30	21.35	29.25	42.10	54.15	76.65	173.50	194.00	286.00
8 inches			14.50	18.40	21.50	29.50	42.40	54.58	77.20	175.00	196.00	289.00
9 inches					21.65	29.75	42.70	55.01	77.75	178.00	200.00	295.00
10 inches					21.80	30.00	43.00	55.44	78.30	181.00	204.00	302.00
11 inches					22.00	30.50	43.50	56.00	79.00	184.00	208.00	308.00
12 inches					23.50	31.00	44.00	57.00	80.00	187.00	212.00	314.00
13 inches										190.00	216.00	320.00
14 inches										193.00	220.00	326.00
15 inches										196.00	224.00	332.00
16 inches										199.00	228.00	339.00
17 inches										202.00	232.00	345.00
18 inches										205.00	236.00	352.00

Discount.....

NOTE—Always specify by number and state size. Unless otherwise specified on order, shields only will be sent. Drills for above shown on opposite page.

Directions for Ordering—The Diameter of the Expansion Bolt is understood to be the size of the Bolt itself and not the outside of the Expansion Parts. The Length of the Bolt is found by adding the thickness of material to length of the Shield, unless sleeve or collar is used.

Instructions for Using—Use a drill same size as hole to receive the expansion; sizes are given in table above; insert shield in hole, run bolt through hole in object to be fastened, and on into shield and tighten.

No. 186 R-W Star Drills

FOR DRILLING BRICK AND STONE



Self centering cutting edge. Highest grade crucible tool steel. Upset and forged to allow proper degree of clearance on the blades to prevent choking. Every drill guaranteed.

PRICE LIST, PER DOZEN

Length	DIAMETER OF CUTTING EDGE											
	$\frac{1}{4}$ -inch	$\frac{3}{8}$ -inch	$\frac{1}{2}$ -inch	$\frac{5}{8}$ -inch	$\frac{3}{4}$ -inch	$\frac{7}{8}$ -inch	1-inch	1 $\frac{1}{8}$ -inch	1 $\frac{1}{4}$ -inch	1 $\frac{3}{8}$ -inch	1 $\frac{1}{2}$ -inch	1 $\frac{3}{4}$ -inch
8	\$ 8.25	\$ 8.25	\$ 8.25	\$ 8.70	\$ 9.65	\$11.65	\$13.70	\$15.30	\$17.00			
12	8.50	8.50	8.50	9.00	10.00	12.00	14.00	16.00	18.00	\$20.00	\$22.00	\$24.00
18	10.50	10.50	10.50	11.50	12.50	15.00	17.50	20.00	22.50	25.00	27.50	30.00
24	12.50	12.50	12.50	13.75	15.00	17.50	20.00	22.50	25.00	27.50	30.00	32.50

Discount.....

No. 187 R-W Pipe Drills

FOR QUICK DRILLING OF BRICK WALLS WHERE MATERIAL IS SOFT AND WILL PASS OUT THROUGH SIDE OF DRILL, CAUSING SAME TO CUT RAPIDLY



CUTTERS MILLED LIKE A REAMER. EVERY DRILL IS MADE FROM A SOLID BAR OF FINE TOOL STEEL

PRICE LIST, PER DOZEN

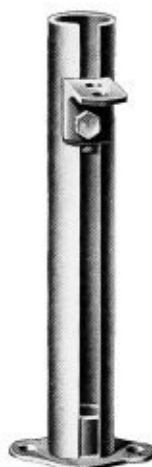
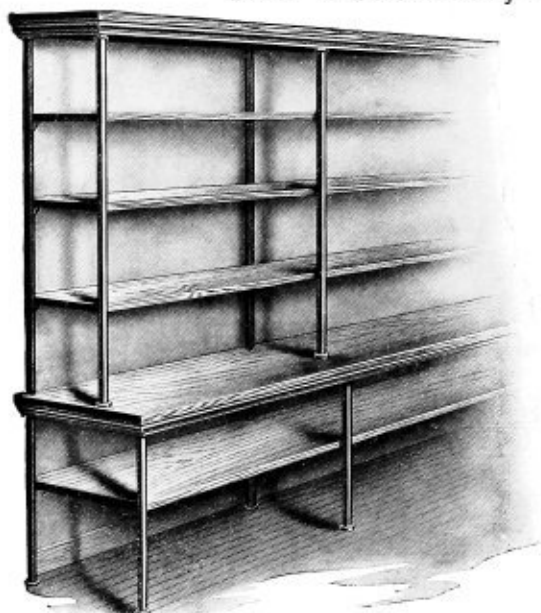
Length	DIAMETER OF CUTTING EDGE											
	$\frac{1}{4}$ -inch	$\frac{3}{8}$ -inch	$\frac{1}{2}$ -inch	$\frac{5}{8}$ -inch	$\frac{3}{4}$ -inch	$\frac{7}{8}$ -inch	1-inch	1 $\frac{1}{8}$ -inch	1 $\frac{1}{4}$ -inch	1 $\frac{3}{8}$ -inch	1 $\frac{1}{2}$ -inch	1 $\frac{3}{4}$ -inch
12	\$ 8.50	\$ 8.50	\$ 8.50	\$ 9.00	\$10.00	\$12.00	\$14.00	\$16.00	\$18.00	\$20.00	\$22.00	\$24.00
18	10.50	10.50	10.50	11.50	12.50	15.00	17.50	20.00	22.50	25.00	27.50	30.00
24	12.50	12.50	12.50	13.75	15.00	17.50	20.00	22.50	25.00	27.50	30.00	32.50

Discount.....

Drills to suit expansion shields, expansion bolts and screw anchors.

NOTE—The diameter given above is the measurement across the face of the drill. For the size of drill to use with various expansion shields, see "Dimensions of Shields," given on previous pages.

No. 629 R-W Tubular Adjustable Shelving



No. 629-ST



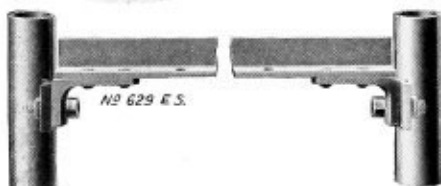
No. 629-BB



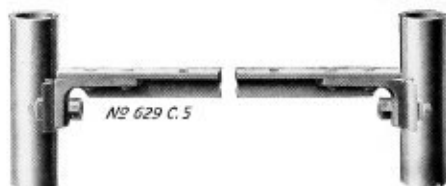
No. 629-SB



PATENTED



No. 629-SB



No. 629-CS

For use where a simple, economical and substantial system of unit shelving is desired. Shelves can be suspended from ceiling, utilizing valuable wall space above stock on floor. Adjustable shelf brackets and supports permit any desired spacing. Brackets are malleable iron and steel. Supports are steel angles, to which the brackets are riveted. Upright supports are slotted steel tubing, furnished in any length up to 15 feet. Bottom sockets are malleable iron and are attached to floor to hold uprights in place. When uprights reach from floor to ceiling, a bottom socket is placed in each end of the tubing, making the shelving absolutely rigid. All parts finished rustless, dead black.

PRICE LIST

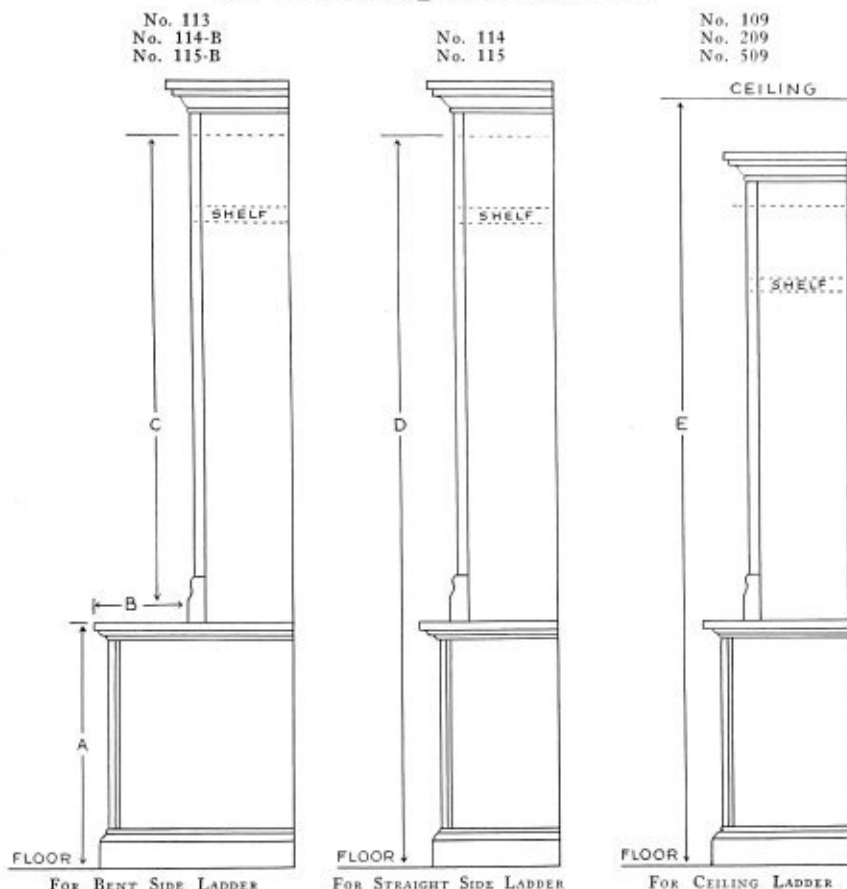
No. 629-BB. Bottom Sockets (1-3 pound), each.....	\$.08
No. 629-CS. Center Supports, 12 inches long (1½ pounds), each.....	.50
No. 629-CS. Center Supports, 24 inches long (2½ pounds), each.....	.60
No. 629-CS. Center Supports, 36 inches long (3½ pounds), each.....	.70
No. 629-ES. End Supports, 12 inches long (1½ pounds), each.....	.50
No. 629-ES. End Supports, 24 inches long (2½ pounds), each.....	.60
No. 629-ES. End Supports, 36 inches long (3½ pounds), each.....	.70
No. 629-SB. Shelf Brackets (½ pound), each.....	.15
No. 629-ST. Slotted Shelf Tubing, for uprights (1½ pounds), per foot.....	.20

Discount.....

Directions for Ordering—Always send sketch showing layout with all dimensions inserted. If desired, we will upon request forward a sketch showing exactly what will be furnished.

NOTE—If shelving is used for heavy hardware, paints and articles of any great weight, we recommend the use of center and end supports instead of shelf brackets only.

R-W Rolling Store Ladders



On *bent side ladders* state following: 1st, distance from floor to ledge, (See A); 2nd, width of ledge, (See B); 3rd, distance from ledge to point where track will be attached, (See C); this dimension should be taken to bottom of track; 4th, if oak or pine ladder, (Unless specified, oak ladder will be sent); 5th, finish desired, (Unless specified, regular golden oak will be sent.)

On *straight side ladders* state following: 1st, Distance from floor to point where track will be attached, (See D); this dimension should be taken to bottom of track; 2nd, if oak or pine ladder; (Unless specified, oak ladder will be sent); 3rd, finish desired; (Unless specified, regular golden oak will be sent); 4th, if rubber-tired or fibre-tired bottom fixtures; (Unless specified, rubber-tired bottom fixtures will be sent.)

On *ceiling ladders* state following: 1st, distance from floor to ceiling, (See E); 2nd, If oak or pine ladder; (Unless specified, oak ladder will be sent); 3rd, finish desired; (Unless specified, regular golden oak will be sent); 4th, if rubber-tired or fibre-tired bottom fixtures; (Unless specified, rubber-tired bottom fixtures will be sent.)

Ladder Track—State following for bent or straight side ladders: 1st, entire length of each run of track; 2nd, number of uprights for each run; 3rd, if uprights are straight faced or turned spindle; 4th, give dimensions of same, also distance of uprights from center to center.

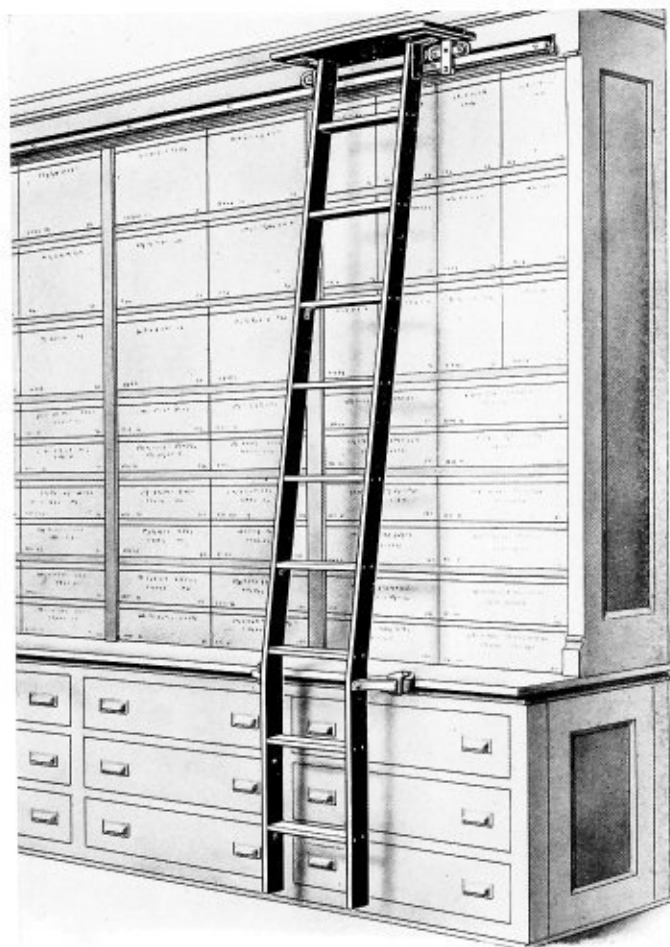
NOTE—On ceiling ladders, the entire length of each run of track only is necessary.



No. 113 R-W Climax Ball-Bearing Store Ladder

(WILCOX No. 192)

THIS TOP FIXTURE WILL REQUIRE $5\frac{1}{2}$ INCHES OF HEAD ROOM ABOVE BOTTOM OF TRACK



As shown in the illustration the weight is carried entirely by the upper fixtures, the lower rollers acting as a guide against the edge of ledge.

Ladders are made of oak or pine, selected and kiln dried. Steps are let into the sides and held by screws passing through the sides of ladder; made perfectly rigid with steel braces.

Ladder sides are $3\frac{1}{2}$ inches wide and steps 4 inches wide on ladders up to 14 feet; over 14 feet, sides are 4 inches wide and steps 5 inches wide. Steps are 12 inches long between ladder sides.

Oak ladders will be finished in dark golden oak unless otherwise specified. Pine ladders are filled and varnished. We can furnish any finish to match your woodwork if you will submit sample.

Track is attached to the uprights of shelving, edge of shelves or cornice as shown above. Not recommended for use with uprights when more than 36 inches apart. Fixtures, both top and bottom described on opposite page.

PRICE LIST

The following price list includes standard length ladders up to 14 feet complete with top and bottom fixtures. Track is not included.

No. 113 Oak Bent Ladder ($3\frac{1}{2}$ pounds per foot), complete.....	\$22.00
No. 113 Hard Pine Bent Ladder (3 pounds per foot), complete.....	20.00
No. 113 Top and bottom fixtures only (7 pounds), per set.....	12.00
No. 113 Ladder Track ($1\frac{1}{2}$ pounds), per foot.....	.30

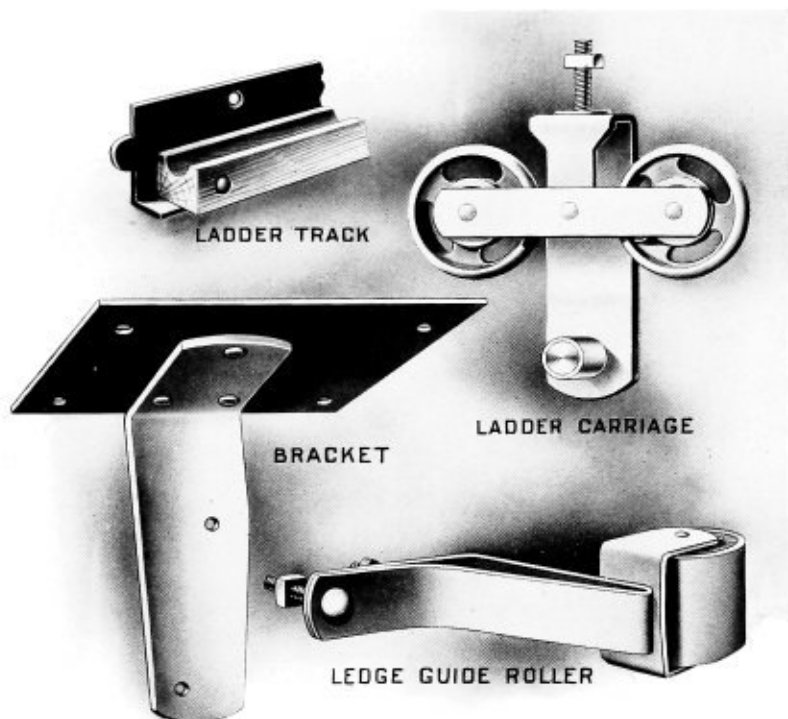
Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.



Fixtures for No. 113 R-W Climax Store Ladder

THIS TOP FIXTURE WILL REQUIRE 5½ INCHES OF HEAD ROOM
ABOVE BOTTOM OF TRACK



Top Fixtures—Wheels, grey iron, lathe turned, 2½ inches diameter. Bearings, steel balls. Finish, aluminum bronze.

Bottom Fixtures—Roller, wood and rubber tired. Frame, steel and properly braced. Finish, aluminum bronze.

Track—Steel angle with grooved hard maple runway, securely attached to same. Finish, natural.

PRICE LIST

No. 113 Fixtures complete (7 pounds), per set.....	\$12.00
No. 113 Ladder Track (1½ pounds), per foot.....	.30

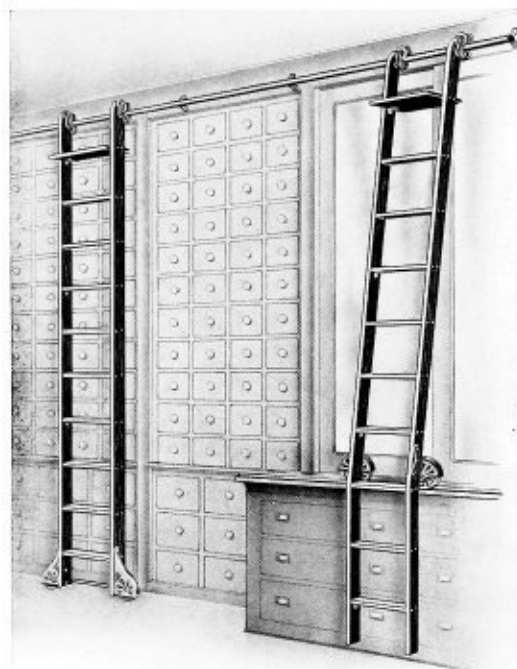
Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

No. 114 and No. 114 B R-W Ball and Roller-Bearing Store Ladders

(WILCOX No. 292 AND No. 292½)

THESE TOP FIXTURES WILL REQUIRE SIX INCHES OF HEAD-ROOM
ABOVE BOTTOM OF TRACK



No. 114
WILCOX No. 292

No. 114-B
WILCOX No. 292½

Track is attached to the uprights of shelving, edge of shelves or to cornice as shown above. Brackets are not attached, so as to allow spacing according to location of uprights, etc. Fixtures, both top and bottom described on opposite page.

PRICE LIST

The following price list includes standard length ladders up to 14 feet, complete with top and bottom fixtures. Track is not included.

	RUBBER TIED	FIBRE TIED
No. 114 Oak Straight Ladder (3½ pounds per foot), complete..	\$20.00	\$21.00
No. 114 Hard Pine Straight Ladder (3 lbs. per ft.), complete..	18.00	19.00
No. 114 Top and Bottom Fixtures only (20 pounds), per set...	12.00	13.00
No. 114 Ladder Track with regular brackets (½ pound), per foot.....		\$.30
No. 114-B Oak Bent Ladder (3½ pounds per foot), complete.....		22.00
No. 114-B Hard Pine Bent Ladder (3 pounds per foot), complete.....		20.00
No. 114-B Top and Bottom Fixtures only (20 pounds), per set.....		12.00

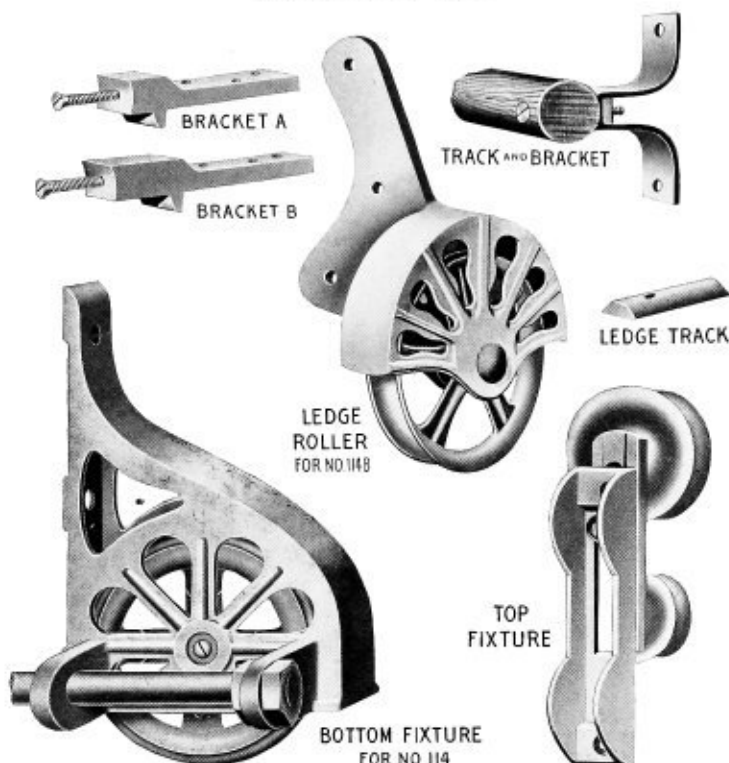
Discount.....

NOTE—Ledge Track for No. 114-B is included with price of ladder complete.

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

Fixtures for No. 114 and 114 B Store Ladders

THESE TOP FIXTURES WILL REQUIRE SIX INCHES OF HEAD-ROOM
ABOVE BOTTOM OF TRACK



Top Fixtures—Wheels, both track and guide, are grey iron and lathe turned. Adjustment, vertical, self-adjusting. Finish, aluminum bronze.

Bottom Fixtures—For straight ladders.

Wheels, grey iron, lathe turned. Made in two sections, permitting tires to be removed easily. Bearings, steel balls. Frames, grey iron. Furnished with rubber or fibre tires. Finish, aluminum bronze.

For Bent Ladders:

Wheels, grey iron, lathe turned, to fit half-round ledge track. Bearings, steel rollers. Frames, grey iron. Finish, aluminum bronze.

Track, pole type, 1½-inch diameter, selected ash and kiln dried. Furnished with steel brackets regular, spaced on 30-inch centers. These are not attached so as to allow spacing according to location of uprights, etc. Special brackets can be furnished as illustrated above at extra cost.

PRICE LIST

No. 114 Top and Bottom Fixtures only (20 pounds), per set.....	{ Rubber Tired...\$12.00
	{ Fibre Tired.... 13.00
No. 114 Ladder Track with regular brackets (½ pound), per foot.....	.30
No. 114-B Top and Bottom Fixtures only (20 pounds), per set.....	12.00
No. 114 Track Bracket "A" (1 inch extension of pole track from shelf), each.....	.20
No. 114 Track Bracket "B" (2 inches extension of pole track from shelf), each.....	.30

NOTE—Brackets "A" and "B" can be used on a shelf or fastened to top of cornice.

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for, and send sketch.



No. 115 and No. 115 B R-W Steel Ball-Bearing Store Ladders

(WILCOX NOS. 529 S AND 529 B)

A DEPARTURE IN STORE LADDERS

THESE FIXTURES WILL REQUIRE FIVE INCHES OF HEAD-ROOM ABOVE BOTTOM OF TRACK



No. 115
WILCOX
No. 529-S



PATENTED

No. 115-B
WILCOX
No. 529-B

As shown in the illustration, the bottom fixtures both on the No. 115 and No. 115-B carry the entire weight. The upper fixtures operating on the track act only as a guide.

Ladders are a combination of steel sides and oak steps. Sides are slotted steel tubing and are furnished in one length up to 14 feet; steps are of selected oak arranged for adjustable attachment to sides at any desired angle or spacing through the slot in tubing. Steps are $4\frac{1}{2}$ inches wide and 14 inches long.

Straight ladders can be set close to shelving when not in use, as the upper fixture has a self adjusting vertical slide which also compensates for unevenness in floor, permitting side ladder to be carried to vertical position and clear aisle.

Bent ladders are furnished with joints of the proper degree of angle.

Adjustment in pendant allows wheels to set perpendicular with track.

Ladder sides are finished regularly in a rustless dead black. Steps are filled golden oak and waxed finish. Top and bottom fixtures in the rustless dead black finish. On special finishes, prices will be quoted on application.

Bottom fixtures furnished with ball-bearing rubber or fibre-tired wheels.

Track is attached to the uprights of shelving, edge of shelves or to cornice as shown above.

Fixtures, both top and bottom described on opposite page.

PRICE LIST

The following price list includes standard length ladder up to 14 feet, complete with top and bottom fixtures:

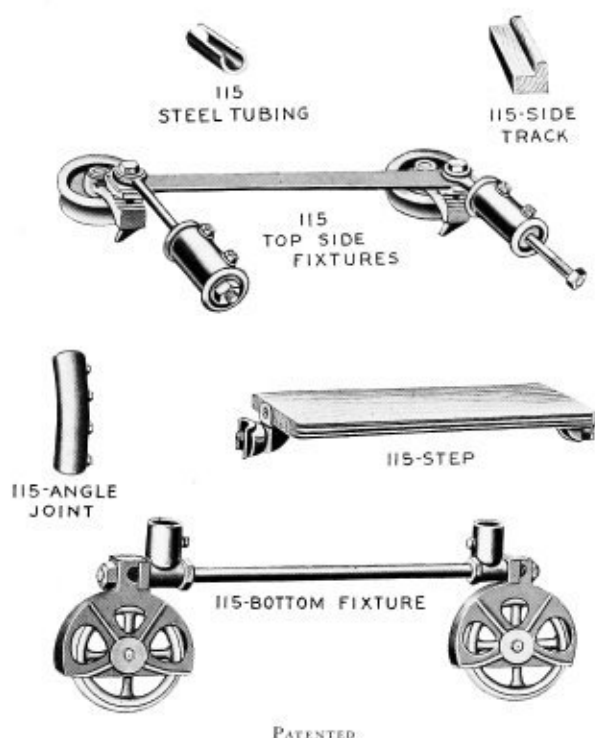
	RUBBER TIRIED	FIBRE TIRIED
No. 115 Steel Straight Ladder ($3\frac{3}{4}$ pounds per foot), complete..	\$18.00	\$19.00
No. 115 Top and Bottom Fixtures only (22 pounds), per set...	12.00	13.00
No. 115 Ladder Track ($\frac{1}{2}$ pound), per foot.....		\$.30
No. 115-B Steel Bent Side Ladder ($3\frac{3}{4}$ pounds), complete.....	20.00	21.00

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

Fixtures for Nos. 115 and 115 B R-W Steel Ball-Bearing Store Ladders

THESE FIXTURES WILL REQUIRE FIVE INCHES OF HEAD-ROOM ABOVE BOTTOM OF TRACK



Ladder Sides—Steel tubing, slotted to allow nut to be inserted. Steps can be attached at any angle and spaced any distance apart. Finish, rustless dead black.

Ladder Joints—Of seamless steel tubing and made in five different shapes: No. 1, 5-degree; No. 2, 10-degree; No. 3, 15-degree; and No. 4, 20-degree angle; No. 5, straight joint used for splicing ladders longer than 14 feet. Finish, rustless dead black.

Top Fixtures—Wheels, grey iron, lathe turned. Bearings, steel rollers. Pendant, malleable iron, adjustable to keep the wheels perpendicular to track. Finish, rustless dead black.

Bottom Fixtures—Wheels, grey iron, lathe turned. Made in two sections, permitting tires to be removed easily. Bearings, steel balls. Frames, grey iron. Furnished with rubber or fibre tires. Finish, rustless dead black.

Track—Selected hard maple and kiln dried. Furnished up to 14 feet in one length. Unless otherwise specified, we furnish the runs of track in such lengths that work out to best advantage. Track can be attached with wood screws or stove bolts according to existing conditions. These are not furnished with track. Finish, natural.

Steps—Selected oak and kiln dried, $4\frac{1}{2}$ inches wide and 14 inches long. Furnished complete with bracket, clamp and nut. Finish, golden oak, filled and waxed. On special finishes prices will be quoted on application.

PRICE LIST

No. 115 Top and Bottom Fixtures only (22 pounds), per set.....	{ Rubber Tired...\$12.00 { Fibre Tired.... 13.00
No. 115 Ladder Track ($\frac{3}{4}$ pound), per foot.....	.30
No. 115 Oak Step, assembled with clamps, each.....	.50
No. 115 Steel Tubular Ladder Sides, per foot.....	.20
No. 115-1 Ladder Joint, 5-degree, per pair.....	1.00
No. 115-2 Ladder Joint, 10-degree, per pair.....	1.00
No. 115-3 Ladder Joint, 15-degree, per pair.....	1.00
No. 115-4 Ladder Joint, 20-degree, per pair.....	1.00
No. 115-5 Ladder Joint, straight for splicing, per pair.....	1.00

Discount.....

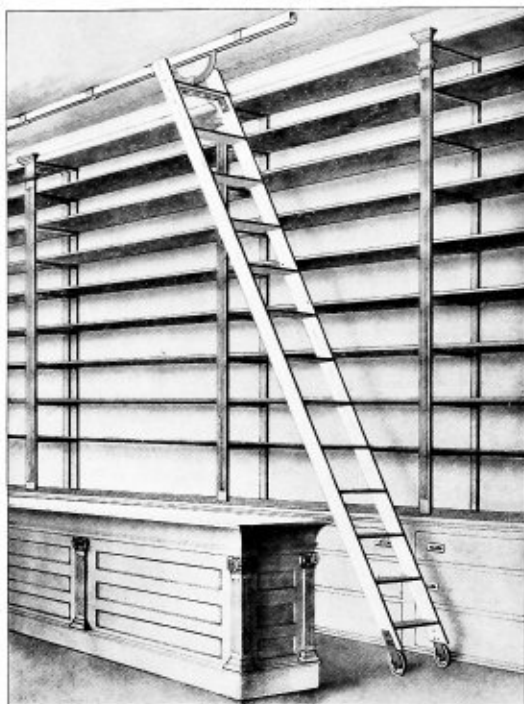
Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.



No. 109 R-W Roller-Bearing Ceiling Store Ladder

(WILCOX No. 129)

A WELL BUILT, SMOOTH RUNNING LADDER



Ladders are made of oak or pine, selected and kiln dried. Steps are let into the sides and held by screws passing through the sides of ladder; made perfectly rigid with steel braces.

Ladder sides are $3\frac{1}{2}$ inches wide and steps 4 inches wide on ladders up to 14 feet; over 14 feet, sides are 4 inches wide and steps 5 inches wide. Steps are 12 inches long between ladder sides.

Oak ladders will be finished in dark golden oak unless otherwise specified. Pine ladders are filled and varnished. We can furnish any finish to match your woodwork if you will submit sample.

Bottom fixtures furnished with roller-bearing rubber or fibre-tired wheels.

Track is attached with brackets to ceiling. These brackets should be spaced not to exceed 36 inches. Unless otherwise specified, parallel ear brackets as shown in cut on opposite page will be furnished.

Fixtures, both top and bottom described on opposite page.

PRICE LIST

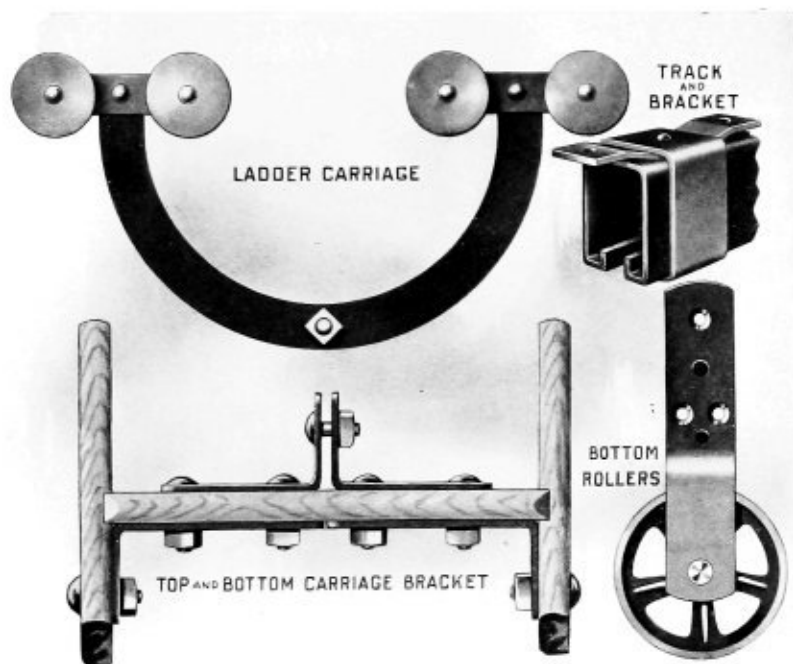
The following price list includes standard length ladders up to 14 feet, complete with top and bottom fixtures. Track is not included.

	RUBBER TIRED	FIBRE TIRED
No. 109 Oak Ceiling Ladder ($3\frac{1}{2}$ pounds per foot), complete...	\$22.00	\$23.00
No. 109 Hard Pine Ladder (3 pounds per foot), complete.....	20.00	21.00
No. 109 Top and Bottom Fixtures only ($9\frac{1}{2}$ pounds), per set....	12.00	13.00
No. 109 Ladder Track, with brackets (2 pounds), per foot.....	\$.30	

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

Fixtures for No. 109 R-W Roller-Bearing Ceiling Store Ladder



Top Fixtures—Wheels, vulcanized fibre, $2\frac{1}{2}$ inches in diameter. Bearings, steel rollers. Crescent and top step irons, heavy steel. Finish, aluminum bronze.

Bottom Fixtures—Wheels, grey iron, lathe turned. Made in two sections, permitting tires to be removed easily. Bearings, steel rollers. Steel frames. Furnished with rubber or fibre tires. Finish, aluminum bronze.

Track—Trolley type, 16-gauge steel. Furnished with No. 7x31 parallel ear center brackets on 36-inch centers and one 8 x 31 parallel ear end bracket for each end. Finish, black enamel.

PRICE LIST

	RUBBER TIED	FIBRE TIED
No. 109 Top and Bottom Fixtures only ($9\frac{1}{2}$ pounds), per set.....	\$12.00	\$13.00
No. 109 Ladder Track, with brackets (2 pounds), per foot.....		\$.30

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

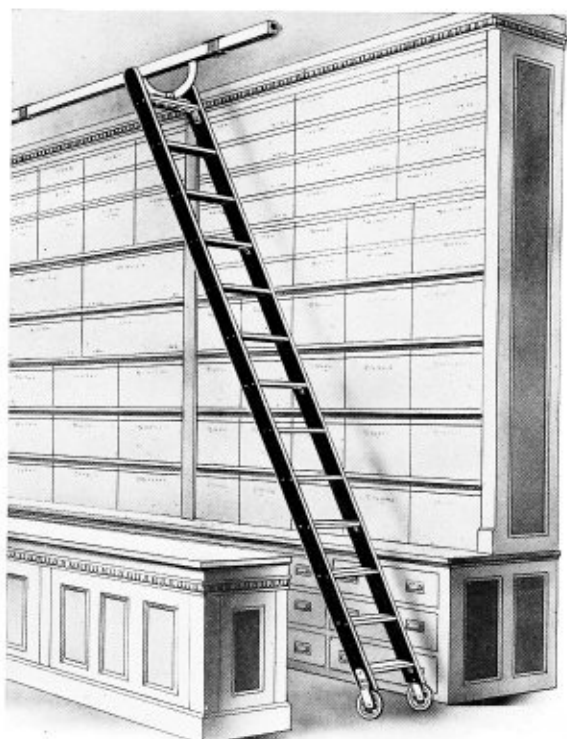


No. 209

R-W Perfection Ball-Bearing Ceiling Store Ladder

(Wilcox No. 429)

WOOD-LINED TRACK—A WELL BUILT, SMOOTH RUNNING LADDER



Ladders are made of oak or pine, selected and kiln dried. Steps are let into the sides and held by screws passing through the sides of ladder; made perfectly rigid with steel braces.

Ladder sides are $3\frac{1}{2}$ inches wide and steps 4 inches wide on ladders up to 14 feet; over 14 feet, sides are 4 inches wide and steps 5 inches wide. Steps are 12 inches long between ladder sides.

Oak ladders will be finished in dark golden oak unless otherwise specified. Pine ladders are filled and varnished. We can furnish any finish to match your woodwork if you will submit sample.

Bottom fixtures furnished with roller-bearing rubber or fibre-tired wheels.

Track is attached with brackets to ceiling. These brackets should be spaced not to exceed 36 inches. Unless otherwise specified, parallel ear brackets as shown in cut on opposite page will be furnished.

Fixtures, both top and bottom described on opposite page.

PRICE LIST

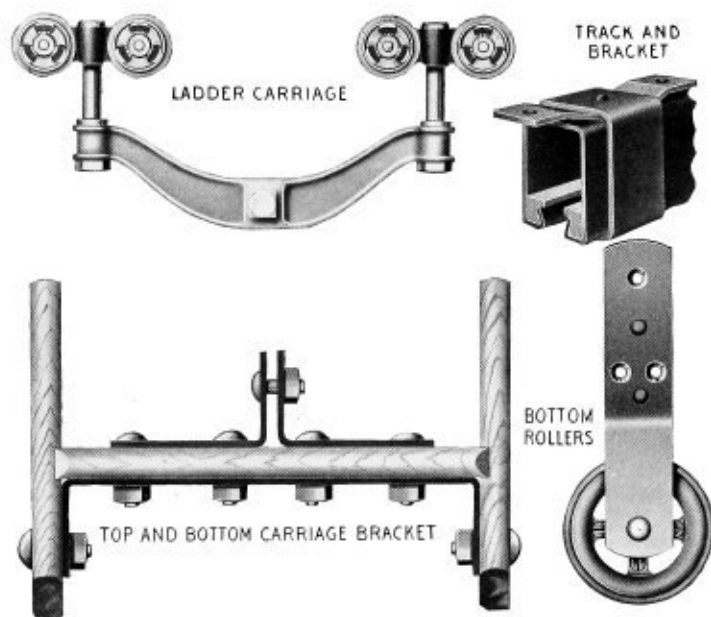
The following price list includes standard length ladders up to 14 feet, complete with top and bottom fixtures. Track is not included.

	RUBBER TIRIED	FIBRE TIRIED
No. 209 Oak Ceiling Ladder ($3\frac{1}{2}$ pounds per foot), complete.....	\$22.00	\$23.00
No. 209 Hard Pine Ladder (3 pounds per foot), complete.....	20.00	21.00
No. 209 Top and Bottom Fixtures only (10 pounds), per set.....	12.00	13.00
No. 209 Ladder Track, with brackets ($2\frac{1}{2}$ pounds), per foot.....	\$.30	

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

Fixtures for No. 209 R-W Perfection Ball-Bearing Ceiling Store Ladder



Top Fixtures—Wheels, grey iron, lathe turned, $1\frac{1}{2}$ inches diameter. Bearings, steel balls. Connecting bar, malleable iron. Top step irons, heavy steel. Finish, aluminum bronze.

Bottom Fixtures—Wheels, grey iron, lathe turned. Made in two sections, permitting tires to be removed easily. Bearings, steel rollers. Steel frames. Furnished with rubber or fibre tires. Finish, aluminum bronze.

Track—16-gauge steel and hard maple lined, clincher type. Furnished with No. 7x31 parallel ear center brackets on 36-inch centers and one No. 8x31 parallel ear end bracket for each end. Finish, black enamel.

PRICE LIST

	RUBBER TIED	FIBRE TIED
No. 209 Top and Bottom Fixtures only (10 pounds), per set.....	\$12.00	\$13.00
No. 209 Ladder Track, with brackets ($2\frac{1}{2}$ pounds), per foot.....		\$.30

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

No. 509 R-W Steel Ball-Bearing Ceiling Store Ladder

(Wilcox No. 529 C)
A DEPARTURE IN STORE LADDERS



PATENTED

Ladders are a combination of steel sides and oak steps. Sides are slotted steel tubing and are furnished in one length up to 14 feet; steps are of selected oak arranged for adjustable attachment to sides at any desired angle or spacing through the slot in tubing. Steps are 4½ inches wide and 14 inches long.

Ladder sides are finished regularly in a rustless dead black. Steps are filled golden oak and waxed finish. Top and bottom fixtures in the rustless dead black finish. On special finishes, prices will be quoted on application.

Bottom fixtures furnished with ball-bearing rubber or fibre-tired wheels.

Track is attached with brackets to ceiling. These brackets should be spaced not to exceed 36 inches. As shown in illustration brackets are placed between the two parallel runs of hard maple track.

Fixtures, both top and bottom described on opposite page.

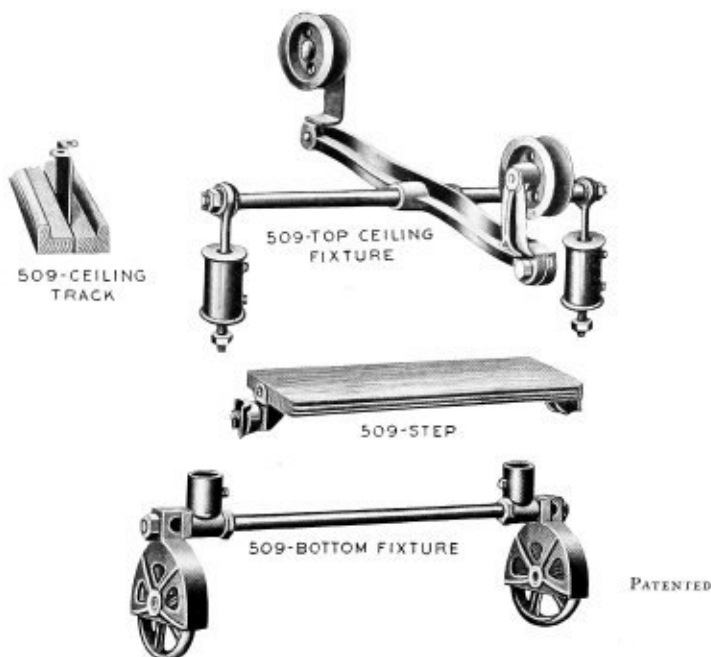
PRICE LIST

	RUBBER TIERED	FIBRE TIERED
No. 509 Steel Ceiling Ladder (3½ pounds per foot), complete..	\$20.00	\$21.00
No. 509 Top and Bottom Fixtures only (24 pounds), per set...	12.00	13.00
No. 509 Ceiling Ladder Track (1½ pounds), per foot.....	\$.30	

Discount.....

Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

Fixtures for No. 509 R-W Steel Ball-Bearing Ceiling Store Ladder



Top Fixtures—Wheels, grey iron, lathe turned. Bearings, steel rollers. Pendant, malleable iron. Finish, rustless dead black.

Bottom Fixtures—Wheels, grey iron, lathe turned. Made in two sections, permitting tires to be removed easily. Bearings, steel balls. Frames, grey iron. Furnished with rubber or fibre tires. Finish, rustless dead black.

Track—Selected hard maple and kiln dried. Furnished up to 14 feet in one length. Unless otherwise specified, we furnish the runs of track in such lengths that will work out to best advantage. Track is attached with brackets, which are placed between the two parallel runs of hard maple track and are held in place by two flat head stove bolts, which are furnished with each bracket. Finish, natural wood.

Brackets—Made of steel, rustless dead black finish.

Steps—Selected oak and kiln dried, $4\frac{1}{2}$ inches wide and 14 inches long. Furnished complete with bracket, clamp and nut. Finish, golden oak filled and waxed. On special finishes, prices will be quoted on application.

Ladder Sides—Steel tubing slotted, to allow nut to be inserted. Steps can be attached at any angle and spaced any distance apart. Finish, rustless dead black.

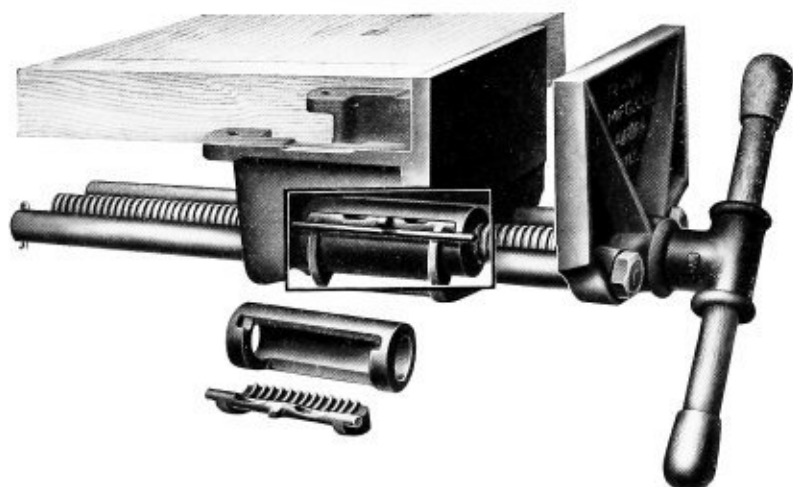
PRICE LIST

No. 509 Top and Bottom Fixtures only (24 pounds), per set.....	{ Rubber Tired...\$12.00
	{ Fibre Tired.... 13.00
No. 509 Ladder Track ($1\frac{1}{2}$ pounds), per foot.....	.30
No. 115 Oak Step, assembled with clamps, each.....	.50
No. 115 Steel Tubular Ladder Sides, per foot.....	.20

Discount.....

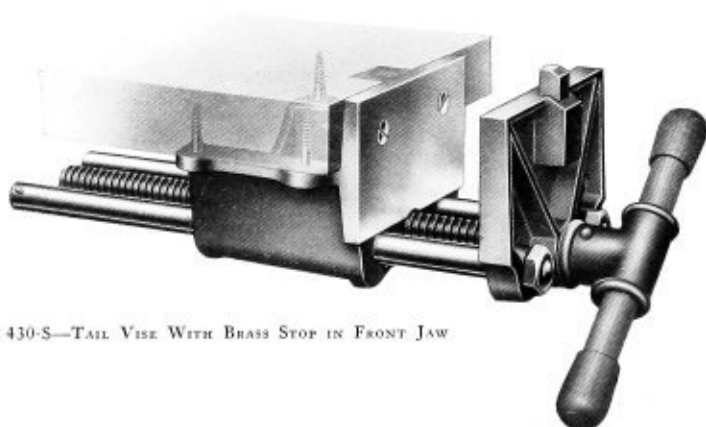
Directions for Ordering—See Page 195. Give all dimensions asked for and send sketch.

Nos. 430 and 430 S R-W Rapid Acting Vises



NO. 430—HEAD OR SIDE VISE

PATENTED



NO. 430-S—TAIL VISE WITH BRASS STOP IN FRONT JAW

FOR DESCRIPTION AND PRICE LIST, SEE OPPOSITE PAGE



Nos. 430 and 430 S R-W Rapid Acting Vises

MADE IN TWO SIZES

The vises illustrated on the opposite page are equipped with our new *two-piece* cam-operated nut.

This nut is a new invention, and being composed of only two pieces, its mechanism is simple and absolutely reliable in operation and will not get out of order, as there are no small parts to wear out. The nut proper is phosphor bronze. The nut sleeve is made of grey iron.

Instantaneous adjustment. Continuous in action. Operates entire length. Nut is released and completely disengaged when pressure on work is removed by slight reverse movement of handle. When pressure is applied nut engages and locks screw firmly and is held rigidly in position.

No pawls, racks or triggers to break or wear.

Guides are of cold rolled steel.

Jaws are of best grey iron with working surfaces ground and finished. Special design of ribs on jaws secures minimum deflection or spring under pressure, as well as minimum weight.

Nos. 430 and 430S—Made in two sizes.

No. 1—Jaws, 7 inches wide, 4 inches deep, open 10 inches; screw, 1-inch diameter, 4 threads to the inch; weight, 32 pounds.

No. 2—Jaws, 10 inches wide, 5 inches deep, open 12 inches; screw, 1-inch diameter, 4 threads to the inch; weight, 42 pounds.

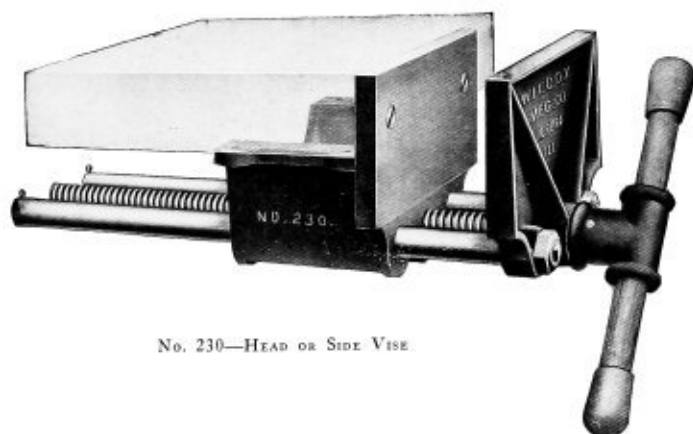
Either type can be made specially to open any desired length. Jaws furnished with maple faces if wanted. Packed regularly six in a crate. If crated single, 10 cents extra.

PRICE LIST

No. 430-1, each	\$6.00
No. 430S-1, each	6.60
No. 430-2, each	7.20
No. 430S-2, each	7.80
Maple-faced Jaws, per pair.....	.50

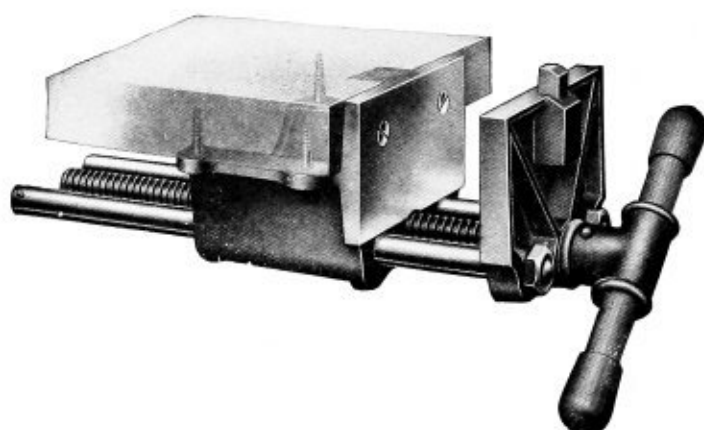
Discount.....

Nos. 230 and 230 S R-W Rapid Acting Vises



No. 230—HEAD OR SIDE VISE

PATENTED



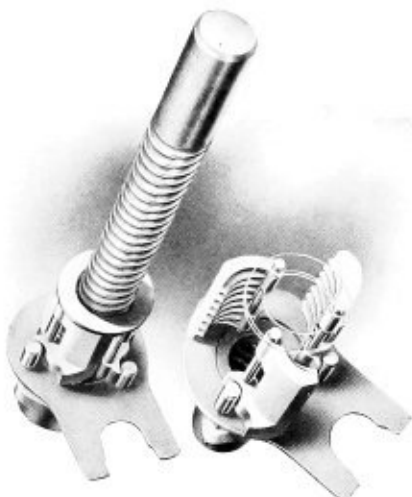
No. 230-S—TAIL VISE WITH BRASS STOP IN FRONT JAW

FOR DESCRIPTION AND PRICE LIST, SEE OPPOSITE PAGE



Nos. 230 and 230 S R-W Rapid Acting Vises

(WILCOX Nos. 230 AND 230 S)
MADE IN TWO SIZES



DETAIL NUT LOCKING DEVICE. VISES ILLUSTRATED
OPPOSITE PAGE

Instantaneous adjustment. Continuous in action.

Phosphor bronze nut operates entire length of screw.

No pawls, racks, or triggers to break or wear. Nut is released and completely disengaged when pressure on work is removed by slight reverse movement of handle. No stripping or cutting of threads.

When pressure is applied it causes the nut to engage and lock the screw firmly and is not held in position by any external mechanism.

Screw is cut with single thread four to one inch, hence has double the power or pressure of vises having screw cut with double thread.

Guides are of cold rolled steel.

Jaws are of best grey iron with working surfaces ground and finished.

Special design of ribs on jaws secures minimum deflection or spring under pressure as well as minimum weight.

Nos. 230 and 230S—Made in two sizes.

No. 1—Jaws, 7 inches wide, 4 inches deep, open 10 inches; screw, 1 inch diameter, 4 threads to the inch; weight, 32 pounds.

No. 2—Jaws, 10 inches wide, 5 inches deep, open 12 inches; screw, 1 inch diameter, 4 threads to the inch; weight, 42 pounds.

Either type can be made specially to open any desired length. Jaws furnished with maple faces if desired. Packed regularly six in a crate. If crated single, 10 cents extra.

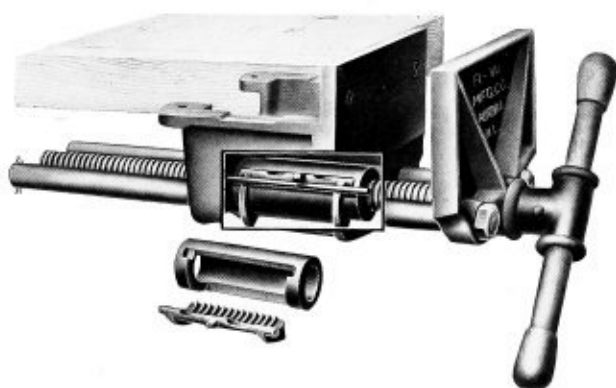
PRICE LIST

No. 230-1, each	\$6.00
No. 230S-1, each	6.60
No. 230-2, each	7.20
No. 230S-2, each	7.80
Maple-faced Jaws, per pair	.50

Discount



No. 530 R-W Midget Rapid Acting Vise



PATENTED

Designed especially for light pattern making, watch and clock repairing, etc.

The vise shown above is equipped with our new two-piece cam-operated nut, the same style as used with No. 430 and 430S vises on pages 208, 209, except that it is very much smaller.

This nut is a new invention, and being composed of only two pieces, its mechanism is simple and absolutely reliable in operation and will not get out of order, as there are no small parts to wear out. The nut proper is phosphor bronze. The nut sleeve is made of grey iron.

Instantaneous adjustment. Continuous in action. Operates entire length. Nut is released and completely disengaged when pressure on work is removed by slight reverse movement of handle. When pressure is applied nut engages and locks screw firmly and is held rigidly in position.

No pawls, racks or triggers to break or wear.

Guides are of cold rolled steel.

Jaws are of best grey iron with working surfaces ground and finished. Special design of ribs on jaws secures minimum deflection or spring under pressure, as well as minimum weight.

Jaws, $3\frac{1}{2}$ inches wide, 2 inches deep, opening 5 inches. Handle, $5\frac{1}{2}$ inches long. Screw, $\frac{1}{2}$ inch in diameter, 8 threads to the inch. Weight, $3\frac{3}{4}$ pounds. Packed regularly 6 in a box.

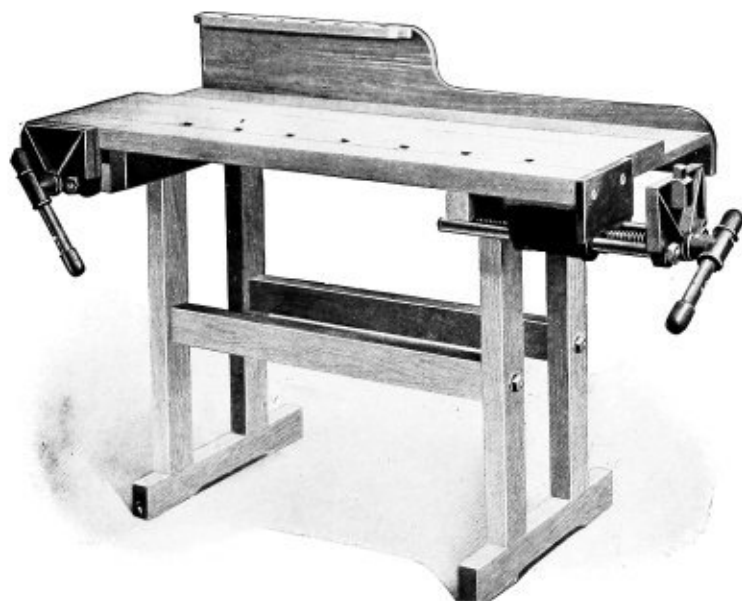
PRICE LIST

No. 530, each.....\$3.50

Discount.....

No. 260 Manual Training Benches

THIS PATTERN HAS BEEN APPROVED BY EXPERTS IN MANUAL TRAINING AND HAS GIVEN
BETTER SATISFACTION THAN ANY OTHER KNOWN TYPE



PATENTED

Made in one size, frame and top from selected kiln-dried hard maple; tool tray and back with tool rack from selected kiln-dried yellow pine.

Furnished with both head (No. 430-1) and tail (No. 430S-1) vises, as shown, or with either as desired.

More easily assembled than any other type. Benches are filled and varnished.

Height, 32 inches; length of top, 48 inches; total width of top, 21 inches; width of tool tray, 8 inches.

Shipping weight: No. 260-1 K. D. and crated with 1 vise, 130 pounds; No. 260-2 K. D. and crated with 2 vises, 170 pounds; No. 260, bench only, K. D. and crated, 100 pounds.

PRICE LIST

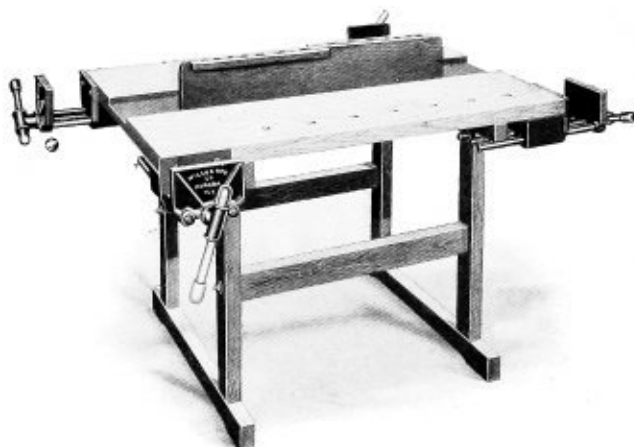
No. 260-1 Bench with head vise only, each.....	\$16.00
No. 260-2 Bench with head and tail vises, each.....	22.00
No. 260 Bench only, each.....	12.00

Discount.....

NOTE—All benches are equipped with No. 430 type vises. (Pages 208, 209.)

No. 260-4 R-W Manual Training Bench

THIS PATTERN HAS BEEN APPROVED BY EXPERTS IN MANUAL TRAINING AND HAS
GIVEN BETTER SATISFACTION THAN ANY OTHER KNOWN TYPE



PATENTED

Accommodates four pupils in less relative space than the single type.

Made in one size, frame and top from selected kiln-dried, hard maple; tool tray and tool rack from selected kiln-dried yellow pine.

Furnished with four vises as shown, viz.: two No. 430-1 and two No. 430S-1.

More easily assembled than any other type. Benches are filled and varnished.

Height, 32 inches; length of top, 48 inches; total width of top, 34 inches; width of tool tray, 8 inches.

Shipping weight: No. 260-4 K. D. and crated with 4 vises, 280 pounds.

PRICE LIST

No. 260-4 Bench with 4 vises, each.....\$36.00

Discount.....

NOTE—All benches are equipped with No. 430 type vises. (Pages 208, 209.)

No. 270 R-W Manual Training Bench

THIS PATTERN DESIGNED ESPECIALLY TO MEET THE DEMAND FOR A
MANUAL TRAINING BENCH WITH DRAWERS AND LOCKER



PATENTED

Panel door and drawers furnished with lock and key to pass all locks.

Bench made in one size, frame and top from selected kiln-dried, hard maple; tool tray and back with tool rack from selected kiln-dried yellow pine; drawers, panel door and panels from kiln-dried hardwood.

Furnished with both head (No. 430-1) and tail (No. 430S-1) vises, as shown, or with either as desired.

Benches are filled and varnished.

Height, 32 inches; length of top, 48 inches; total width of top, 21 inches; width of tool tray, 8 inches.

Shipping weight: No. 270-1, set up and crated with 1 vise, 200 pounds; No. 270-2, set up and crated with 2 vises, 230 pounds; No. 270, bench only, set up and crated, 165 pounds.

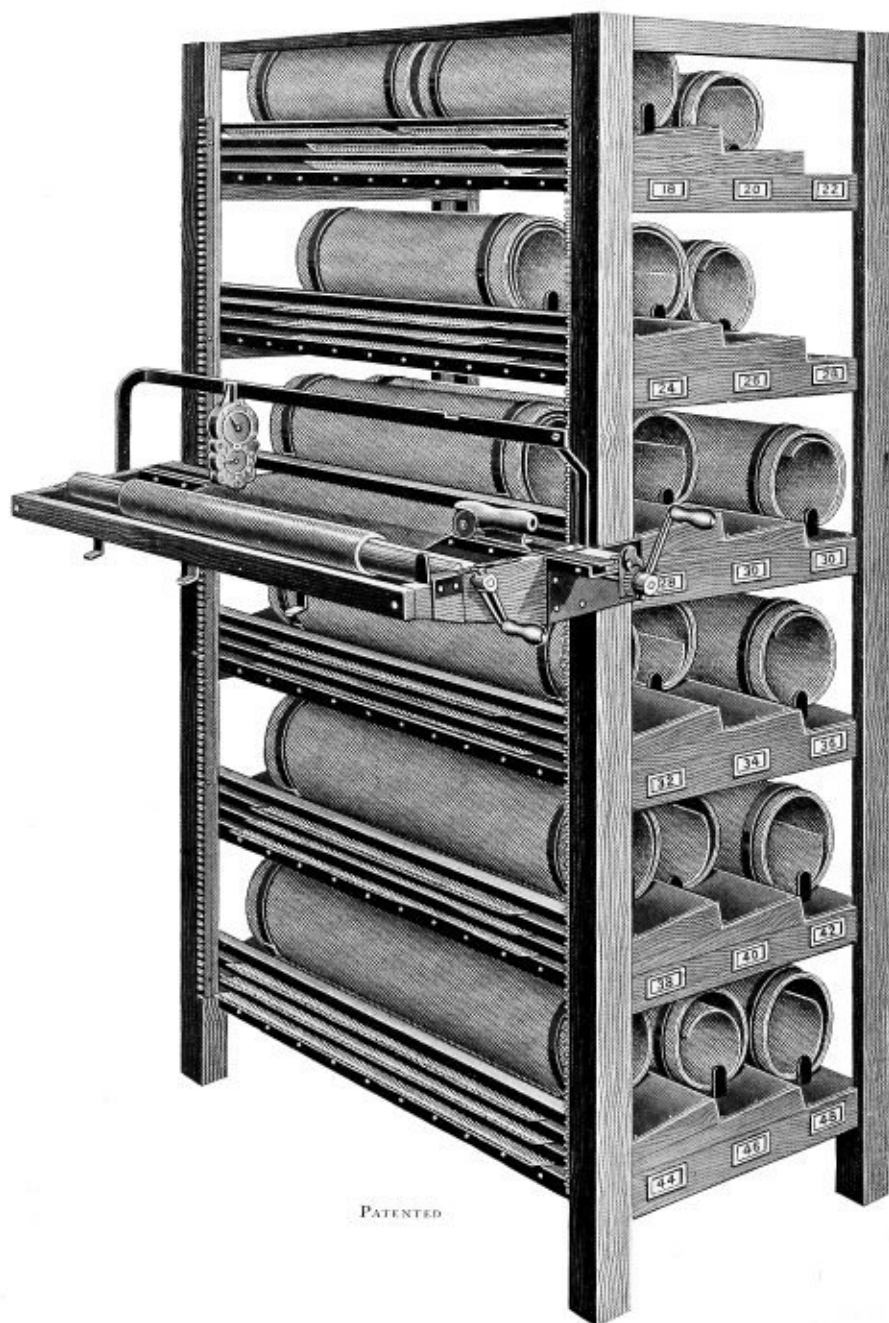
PRICE LIST

No. 270-1 Bench with head vise only, each.....	\$24.00
No. 270-2 Bench with head and tail vises, each.....	30.00
No. 270 Bench only, each.....	20.00

Discount.....

NOTE—All benches are equipped with No. 430 type vises. (Pages 208, 209.)

No. 1836 R-W Wire Cloth Machine



PATENTED

FOR DESCRIPTION AND PRICE LIST SEE OPPOSITE PAGE



Nos. 1236, 1836, 1848, 2448 R-W Wire Cloth Machine

Made in four sizes as shown in price list below.

Requires minimum floor space and is especially recommended as a time-saver when waiting on customers, whose order is measured, cut, rolled up and tied without removing original roll from the rack. Will handle any width of wire cloth up to 48 inches.

Twine box conveniently placed, measuring and cutting table adjustable to any shelf and locks automatically. Cutting blade adjustable, allowing for wear.

Measuring device movable to operate on any width of cloth and is accurate on any mesh wire cloth.

Wire cloth holder rings movable to fit any width wire. On the two larger sizes, Nos. 1848 and 2448, on the upper shelves, two rolls of different width can be placed. For number of wire cloth holder rings furnished with each machine, see table below.

PRICE LIST

No.	Capacity	Wire Cloth Holder Rings	FLOOR SPACE			Weight Lbs.	Each
			Deep	Wide	High		
1236	Holds 12 rolls up to 36 in. wide	24	30 in.	52 in.	5 ft. 4 in.	195	\$ 65.00
1836	Holds 18 rolls up to 36 in. wide	36	37 in.	52 in.	5 ft. 9½ in.	256	75.00
1848	Holds 24 rolls of various widths up to 48 in. wide	48	37 in.	64 in.	5 ft. 9½ in.	371	85.00
2448	Holds 32 rolls of various widths up to 48 in. wide	64	45 in.	64 in.	5 ft. 9½ in.	552	100.00

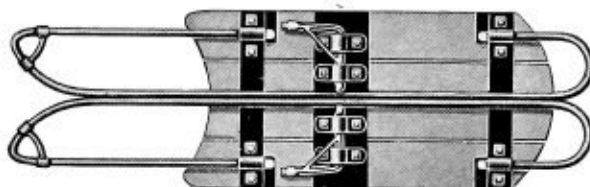
Discount.....

No. 600 R-W Little Giant Folding Sled

NOVEL, PRACTICAL, SIMPLE, STRONG



READY FOR USE



FOLDED (PATENTED AUGUST 10, '09)

The folding feature permits of economy in handling, transportation and storage. The user can carry the sled under his arm when climbing hills or riding on street cars. These sleds can be hung on the wall, out of the way, when not in use.

Runners—Bessemer spring steel, $\frac{3}{8}$ -inch round. Securely attached with corrugated clips to wood top with bolts.

Braces—Malleable iron, $\frac{1}{4}$ -inch round, with special design of ribs which secure minimum deflection or spring under pressure and weight. Securely attached to wood top with bolts.

Top—Made of good quality, bone-dry, hardwood.

Finish—Steel parts finished in finest black baked enamel. Wood top finished in red, blue or green enamel, well varnished and handsomely decorated. Each put in heavy express paper bag, retaining the lustre of finish.

Speed—There are no braces to obstruct the speed of the sled, the only contact with the snow being the round steel runners which offer greater speed than any other type of runner.

Dimensions— $11\frac{1}{2}$ inches wide, $4\frac{3}{4}$ inches high, 35 inches long.

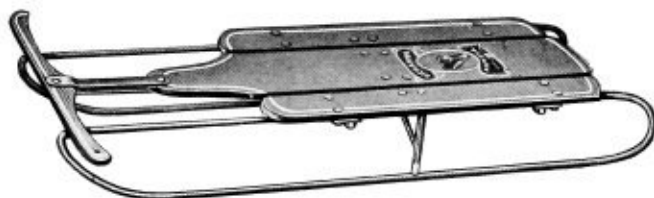
Weight—8 pounds each. Packed one dozen in a crate.

PRICE LIST

No. 600 Little Giant Folding Sled, per dozen.....\$18.00

Discount.....

No. 610 R-W Flexofold Folding Sleds



READY FOR USE

Increased steering qualities of the Flexofold Sled are due to runners bending through entire length (not just at the front part) of the sled. The most flexible sled on the market. Steering is effective at all times and under absolute control.

Runners—Bessemer steel, securely attached with corrugated clips to wood top with bolts. Sizes shown in table below.

Braces—Malleable iron with special design of ribs which secure minimum deflection or spring under pressure and weight. Securely attached to wood top with bolts. Sizes shown in table below.

Top and Steering Bar—Made of good quality, bone-dry, hardwood.

Finish—Steel parts finished in finest black baked enamel. Wood top finished in red, blue or green enamel, well varnished and handsomely decorated. Each sled put in heavy express paper bag, retaining the lustre of finish.

Speed—There are no braces to obstruct the speed of the sled, the only contact with the snow being the round steel runners which offer greater speed than any other type of runner.

Number	DIMENSIONS			Runners, In.	Braces, In.	Weight Each Pounds	Price List per Dozen
	Width, In.	Height, In.	Length, In.				
610-1	11½	5	36	3½	1½	10½	\$24.00
610-2	12	5½	42	1¾	1½	17½	30.00
610-3	13	6	48	1½	1½	23½	42.00

Packed one dozen in a crate

Discount.....

NOTE—As shown in illustration above, No. 610-1 sleds are made with one brace for each runner; No. 610-2 and No. 610-3 sleds are made with two braces for each runner. No. 610-3 is equipped with a foot rest, making same a two-passenger sled.

R-W Grindstones

LOOSE AND MOUNTED

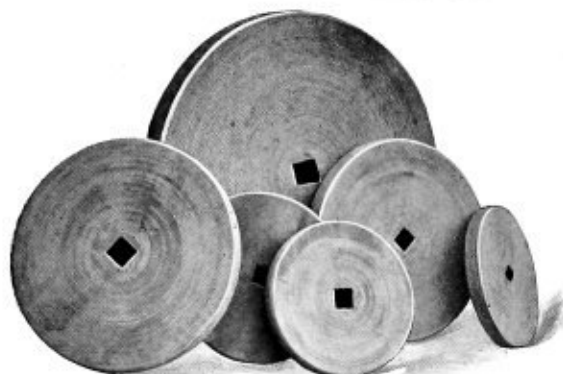


THE WAY GRINDSTONES ARE TURNED



A LARGE STOCK OF LOOSE STONES READY FOR SHIPMENT

R-W Loose Grindstones



We are prepared to furnish loose grindstones of any desired grit in any quantity. The stones are from the Berea district in Ohio and are the best known for general grinding.

All diameters and thicknesses. Furnished regular with straight face. Can furnish bevel face when desired. All stones cut with parallel sides, permitting same to be piled, requiring but minimum storage space.

Loose and mounted stones shipped in mixed cars either from quarry or from Aurora factory. Sold by the single stone, ton or carload.

Can also furnish Nova Scotia Grit if desired.

Prices quoted on application.

NOTE—Stones not crated unless so ordered, in which case we add actual cost of crating.

STANDARD TABLE WEIGHTS OF OHIO GRINDSTONES

All stones over 200 pounds are sold by measurement weight; less than 200 pounds by cut weight, which is actual weight on scales as they come from the lathe and is always cut on the stone.

ESTIMATED WEIGHT OF STONE, 140 POUNDS PER CUBIC FOOT

DIAMETER		Weight of Stone One Inch Thick	DIAMETER		Weight of Stone One Inch Thick	DIAMETER		Weight of Stone One Inch Thick
Feet	Inches		Feet	Inches		Feet	Inches	
2	0	36.650	4	0	146.603	6	0	329.857
2	1	39.768	4	1	152.775	6	1	339.084
2	2	42.913	4	2	159.075	6	2	348.437
2	3	46.386	4	3	165.501	6	3	357.918
2	4	49.885	4	4	172.055	6	4	367.526
2	5	53.512	4	5	178.736	6	5	377.242
2	6	57.267	4	6	185.545	6	6	387.124
2	7	61.148	4	7	192.480	6	7	397.114
2	8	65.157	4	8	199.543	6	8	407.232
2	9	69.293	4	9	206.733	6	9	417.476
2	10	73.556	4	10	214.051	6	10	427.848
2	11	77.946	4	11	221.496	6	11	438.347
3	0	82.464	5	0	229.068	7	0	448.973
3	1	87.119	5	1	236.767	7	1	459.726
3	2	91.881	5	2	244.593	7	2	470.607
3	3	96.782	5	3	252.547	7	3	481.615
3	4	101.808	5	4	260.628	7	4	492.750
3	5	106.962	5	5	268.836	7	5	504.013
3	6	112.243	5	6	277.172	7	6	515.401
3	7	117.651	5	7	285.635	7	7	526.920
3	8	123.187	5	8	294.225	7	8	538.564
3	9	128.850	5	9	302.942	7	9	550.335
3	10	134.641	5	10	311.787	7	10	562.234
3	11	140.558	5	11	320.758	7	11	574.260

To find the weight of Ohio Grindstones, multiply the weight given in table by the thickness in inches.

No. 025 R-W King Tubular Steel Frame Grindstones



PATENTED

Tubular steel frame, slightly flexible, permitting same to adjust itself to uneven floors or surfaces. Easily set up. Frame is narrow at top, making it convenient to apply power and spread at base, giving greater rigidity. Bi-treadle, with power properly applied.

Stone movable horizontally on frame to suit convenience of operator.

Ball-bearing journals and crank attachment. Fitted with detachable steel axle. Cranks are held on axle with our positive, patented nut locking device.

Seat made of steel, adjustable vertically 4 to 5 inches.

Made in one size and furnished with stone guaranteed best quality Berea Grit for general grinding, 20 to 22 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face.

Finish, red enamel with black trimmings.

Shipped knocked down, well crated, with stone protected. Shipping weight, 110 pounds.

PRICE LIST

No. 025 Grindstone, complete, each.....\$6.90

Discount.....

No. 400 R-W Victor Tubular Steel Frame Grindstone



PATENTED

Tubular steel frame, strong and rigid. Built on up-to-date mechanical principles. Bi-treadle with power properly applied.

Ball-bearing journals and crank attachment. Fitted with detachable steel axle. Cranks are held on axle with our positive, patented nut locking device.

Made in one size and furnished with stone guaranteed best quality Berea Grit for general grinding, 19 to 22 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face.

Seat, grey iron and adjustable.

Finish, red enamel with black trimmings.

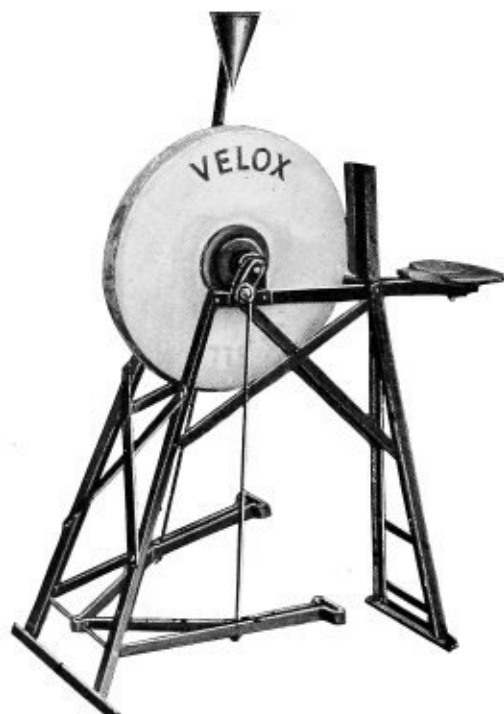
Shipped knocked down, well crated, with stone protected. Shipping weight, 100 pounds.

PRICE LIST

No. 400 Grindstone, complete, each.....\$6.90

Discount.....

No. 05 R-W Velox Ball-Bearing Steel Frame Grindstone



PATENTED

Angle steel frame, well braced, strong and rigid. No vibration, bi-treadle with power properly applied.

Ball-bearing journals and crank attachment. Fitted with detachable steel axle.

Made in one size and furnished with stone guaranteed best quality Berea Grit for general grinding, 19 to 22 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face.

Seat, steel and adjustable.

Finish, black enamel.

Shipped, knocked down, well crated, with stone protected. Shipping weight, 95 pounds.

PRICE LIST

No. 05 Grindstone, complete, each.....\$6.20

Discount.....

No. 300 R-W Cycle Ball-Bearing Steel Frame Grindstone



PATENTED

Angle steel frame, strong and most rigid, on account of its peculiar construction. The legs are made of one piece angle steel and the upper frame is constructed to form a brace for the legs. No vibration, bi-treadle with power properly applied. Built on up-to-date mechanical principles.

Ball-bearing journals and crank attachment. Fitted with detachable steel axle. Cranks are held on axle with our positive, patented nut locking device.

Made in one size and furnished with stone guaranteed best quality Berea Grit for general grinding, 19 to 22 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face.

Seat, grey iron and adjustable.

Finish, red enamel with black trimmings.

Shipped, knocked down, well crated, with stone protected. Shipping weight, 95 pounds.

PRICE LIST

No. 300 Grindstone, complete, each.....\$6.20

Discount.....



No. 013
R-W Gentleman Ball-Bearing Grindstone



Tubular steel legs, attached to one piece grey iron water pan. Frame well braced and rigid. Water pan has drain cock.

Pedal is extra wide, permitting machine to be operated with one foot when standing or both feet when sitting. Counterweighted crank, so it will not stop on dead centers.

Ball-bearing journals for axle with dust shields. Fitted with detachable steel axle.

Adjustable tool rest and drip tray, draining water back into water pan.

Made in one size and furnished with stone guaranteed best quality Berea Grit for general grinding, 14 inches in diameter by $1\frac{3}{4}$ inches face.

Finish, black enamel.

Shipped, knocked down, well crated, with stone protected. Shipping weight, 70 pounds.

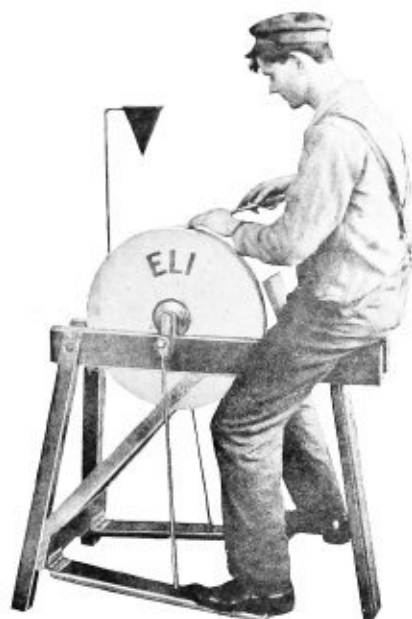
PRICE LIST

No. 013 Grindstone, complete, each.....\$7.50

Discount.....

No. 310 R-W Eli Ball-Bearing Wood Frame Grindstone

MADE IN THREE SIZES



Frame made of well seasoned hardwood, securely braced and bolted. Folds up into compact package for shipment. Bi-treadle with power properly applied.

Ball-bearing journals and crank attachments. Fitted with detachable steel axle. Cranks are held on axle with our positive, patented nut locking device.

Made in three sizes and furnished with stones guaranteed best Berea Grit for general grinding. No. 1 size, 19 to 21 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face; No. 2 size, 22 to 24 inches in diameter by 2 to $2\frac{1}{2}$ inches; No. 3 size, 26 to 28 inches in diameter by 2 to $2\frac{1}{2}$ inches.

Seat, grey iron, attached with screws.

Finish, red paint with black enamel trimmings.

Shipped, knocked down, well crated, with stone protected. Shipping weight: No. 1, 105 pounds; No. 2, 120 pounds; No. 3, 135 pounds.

PRICE LIST

No. 310-1 Grindstone, complete, each.....	\$6.00
No. 310-2 Grindstone, complete, each.....	6.50
No. 310-3 Grindstone, complete, each.....	7.00

Discount.....



No. 410 R-W Challenge Steel Frame Ball-Bearing Grindstone

MADE IN THREE SIZES



Angle steel frame, heavy, rigid and well braced. Steel legs are bolted to top bars.

Ball-bearing journals for axle and one ball-bearing treadle crank. Fitted with detachable steel axle. Cranks are held on axle with our positive, patented nut locking device.

Steel treadle rod and pedal. Hand crank furnished for opposite side.

Made in three sizes and furnished with stone guaranteed best Berea Grit for general grinding. No. 1 size, 18 to 21 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face; No. 2 size, 22 to 24 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face; No. 3 size, 26 to 28 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face.

Finish, red and black enamel.

Shipped, knocked down, well crated with stone protected. Shipping weight, No. 1, 100 pounds; No. 2, 120 pounds; No. 3, 135 pounds.

PRICE LIST

No. 410-1 Grindstone, complete, each.....	\$5.30
No. 410-2 Grindstone, complete, each.....	5.80
No. 410-3 Grindstone, complete, each.....	6.10

Discount.....



No. 710 Climax Ball-Bearing Grindstone

(WILCOX No. 010)

CAUTION: SIZE NUMBERS HAVE BEEN CHANGED, No. 010-1 is No. 710-3, ETC.

MADE IN THREE SIZES



Combination steel and hardwood frame. Top bars made of well seasoned hardwood. Legs, $1\frac{1}{4}$ inches wide by $\frac{3}{4}$ inch thick steel, securely braced and attached with bolts and screws.

Ball-bearing journals for axle, and one ball-bearing treadle crank. Fitted with detachable steel axle. Cranks are held on axle with our positive, patented nut locking device.

Steel treadle rod and hardwood pedal. Hand crank furnished for opposite side.

Made in three sizes and furnished with stone guaranteed best Berea Grit for general grinding. No. 1 size, 18 to 21 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face; No. 2 size, 22 to 24 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face; No. 3 size, 26 to 28 inches in diameter by $1\frac{3}{4}$ to $2\frac{1}{4}$ inches face.

Finish, red paint and black enamel.

Shipped, knocked down, well crated with stone protected. Shipping weight, No. 1, 100 pounds; No. 2, 120 pounds; No. 3, 135 pounds.

PRICE LIST

No. 710-1 (Wilcox 010-3)	Grindstone, complete, each.....	\$5.30
No. 710-2 (Wilcox 010-2)	Grindstone, complete, each.....	5.80
No. 710-3 (Wilcox 010-1)	Grindstone, complete, each.....	6.10

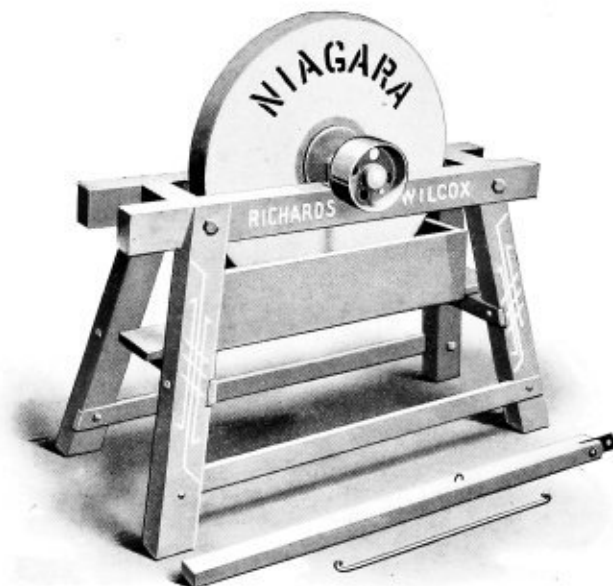
Discount.....



No. 06 R-W Niagara Wood Frame Power Grindstone

(WILCOX No. 08)

FURNISHED WITH FOOT PEDAL WHEN DESIRED



Frame built of well seasoned hardwood, strongly made and securely braced. Legs are bolted to top bar.

Water box is made of well seasoned wood and is placed underneath the stone. Same can be removed to drain the water, as the stone should not stand in water any length of time on account of the submerged part becoming soft and wearing away rapidly. This throws the stone out of true and prevents efficient grinding.

Ball-bearing journals for axle, which are dust and grit proof. Fitted with detachable steel axle.

Steel treadle rod and hardwood pedal furnished only when ordered, and then at extra cost. Hand crank furnished with each machine.

Made in one size and furnished with stone guaranteed best Berea Grit for farm or factory use. Size, 24 inches diameter by 3 inches face.

Pulley, 6 inches diameter by 3 inches face, furnished with each machine. We recommend that stone run about 70 revolutions per minute for best results. (Prices quoted on other sizes of pulleys on application.)

Finish, red paint.

Shipped, knocked down. Frame bundled and stone crated. Shipping weight: Frame, 60 pounds; stone, crated with fixtures, 140 pounds. Weight, complete, 200 pounds.

PRICE LIST

No. 06 Power Grindstone, without foot power attachment, each.....	\$17.00
No. 06 Power Grindstone, with foot power attachment, each.....	18.30

NOTE—Frames and stone sold separately when desired. Prices quoted on application. Discount.....



No. 07 R-W Mogul Steel Frame Power Grindstone

FURNISHED WITH FOOT PEDAL WHEN DESIRED



Heavy steel angle frame, strongly braced. One piece grey iron water pan, from which the water can be drained by simply removing the plug provided for this purpose at the bottom. This overcomes the necessity of removing the water pan to drain off the water. It is necessary to drain off the water when the stone is not in use, for if the stone is allowed to stand in water any length of time, the submerged part becomes soft and wears away rapidly. This throws the stone out of true and prevents efficient grinding.

Furnished with adjustable tool rest, with drip tray, draining into water pan.

Ball-bearing journals for axle, which are dust and grit proof. Fitted with detachable steel axle.

Steel treadle rod and steel treadle furnished only when ordered, and then at extra cost.

Hand crank furnished with each machine.

Made in one size and furnished with stone guaranteed best Berea Grit for farm or factory use. Size, 22 to 24 inches in diameter by $2\frac{1}{2}$ to 3 inches face.

Pulley, 6 inches diameter by 3 inches face, furnished with each machine. We recommend that stone run about 70 revolutions per minute for best results. (Prices quoted on other sizes of pulleys on application.)

Finish, red and black enamel.

Shipped, frame knocked down, stone assembled to water pan, all crated with stone protected. Shipping weight, complete, 220 pounds.

PRICE LIST

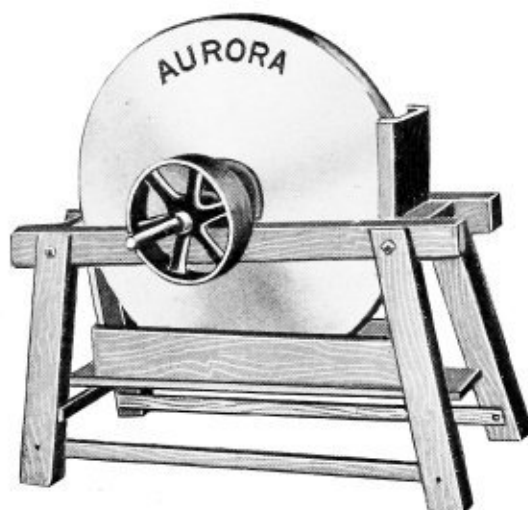
No. 07 Power Grindstone, without foot power attachment, each.....	\$18.00
No. 07 Power Grindstone, with foot power attachment, each.....	20.00

Discount.....

NOTE—Frames and stone sold separately when desired. Prices quoted on application.



No. 09
R-W Aurora Wood Frame Power Grindstone



Frame built of well-seasoned hardwood, strongly made and securely braced. Legs are bolted to top bar.

Water box is made of well seasoned wood and is placed underneath the stone. Same can be removed to drain the water as the stone should not stand in water any length of time on account of the submerged parts becoming soft and wearing away rapidly. This throws the stone out of true and prevents efficient grinding.

Babbitted bearings for axle. Furnished with detachable steel axle, which permits shipping of centered stone separate from frame and still have the stone run true when the axle is replaced, without redressing the stone.

Made in seven sizes as shown in table below. Furnished with stone guaranteed best Berea Grit for factory and railroad use.

Pulley, on first size, No. 09-5, is 6 inches diameter by 3 inches face; on all other sizes regular pulley furnished is 12 inches diameter by 3 inches face. (We will substitute any required size, charging only the actual different in price.)

Finish, red paint.

Shipped, knocked down, frame bundled and stone crated. Can be shipped set up, if desired.

PRICE LIST

NUMBER	Weight	Size of Stone	Complete with Pulley
09-5	190 pounds	24 x 3 inches	\$24.00
09-6	310 pounds	30 x 4 inches	28.80
09-7	410 pounds	36 x 4 inches	35.20
09-8	650 pounds	42 x 5 inches	40.00
09-9	980 pounds	48 x 6 inches	56.00
09-10	1450 pounds	54 x 7 inches	72.00
09-11	2000 pounds	60 x 8 inches	88.00



No. 320
R-W Ball-Bearing Kitchen Grindstone

(WILCOX No. 020)



Frame or trough, best grey iron, mounted on steel base.

Furnished with ball-bearing journals for axle.

Hand-crank is detachable.

Made in six sizes as shown below, stones carefully selected Berea Grit, rubbed finish and accurately centered.

Finish, trough, red enamel; base, black enamel.

Packed one-half dozen in box. Each stone wrapped in heavy paper to protect finish.

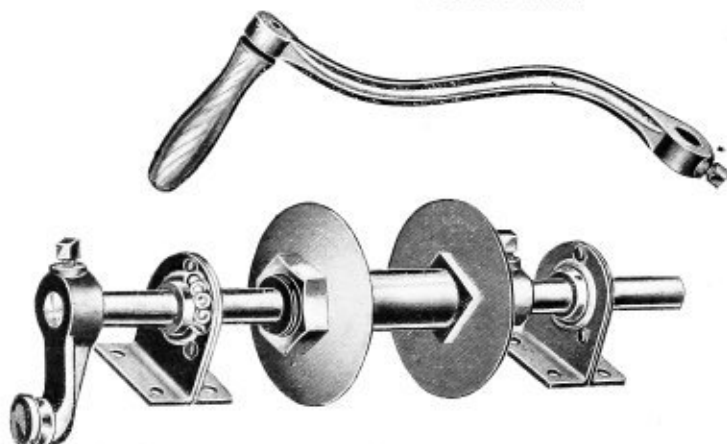
PRICE LIST

NUMBER AND SIZE	Shipping Weight	Per Dozen
320-7 -inch	140 pounds	\$16.20
320-8 -inch	160 pounds	18.60
320-9 -inch	190 pounds	20.90
320-10 -inch	210 pounds	23.20
320-11 -inch	240 pounds	25.50
320-12 -inch	280 pounds	27.90

Discount.....

No. 01 R-W Ball-Bearing Grindstone Fixtures

WITH SET SCREWS



Made in one size. Ball-bearing journals. Journals adjustable on axle. Applicable to all ordinary frames. Sleeve for stone, adjustable on axle, and held in place with set screw. Steel axle, 12 inches long, will support stone, 18 to 20 inches diameter by 2 to 3 inches thick.

Finish, japan. Packed one dozen sets in a box. Shipping weight, 85 pounds.

No. 01½ fixtures same as No. 01 except that two short cranks are furnished and hand crank is omitted.

PRICE LIST

No. 01 Fixtures, per dozen sets.....	\$14.70
No. 01½ Fixtures, per dozen sets.....	14.70

Discount.....

No. 330 R-W Ball-Bearing Grindstone Fixtures

WITH PATENTED NUT LOCKING DEVICE

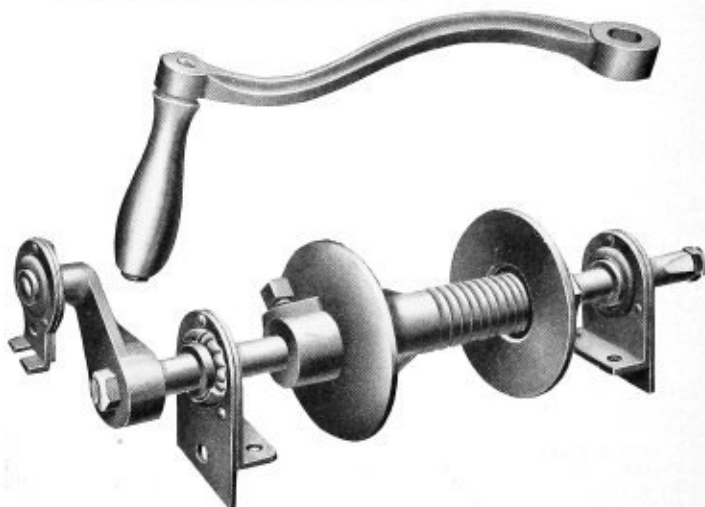
These fixtures are the same as No. 01 shown above with the exception that both cranks are held on axle with our positive, patented nut locking device.

Ball-bearing journals also are of a different design, as shown above.

Furnished with ball-bearing short crank, instead of non-ball-bearing, as with No. 01.

Axle 8½ inches long.

Packed one dozen sets in a box. Shipping weight, 85 pounds.



PRICE LIST

No. 330 Grindstone Fixtures, per dozen sets.....	\$17.00
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Discount.....

No. 018 R-W Cyclone Ball-Bearing Steel Frame Grinder



PATENTED

Designed especially to meet the demand for an inexpensive, dependable grinder for carpenters, plumbers, repair shops, garages, etc.

Angle steel frame, strong and most rigid, on account of its peculiar construction. The legs are made of one piece angle steel and the upper frame is constructed to form a brace for the legs. No vibration, bi-treadle with power properly applied. Built on up-to-date mechanical principles.

As shown in the illustration, the machine is driven with bicycle chain, making the drive positive and doing away with slipping on heavy grinding. This machine combines speed and power. Can attain speed of 2000 revolutions per minute with perfect ease.

Ball-bearing journals and crank attachment.

Cranks are held on axle with our positive, patented nut locking device.

Made in one size and furnished with one 6 inches diameter by $\frac{3}{4}$ inch face Carbo wheel and one sickle cone $3\frac{1}{2}$ inches long by $3\frac{1}{2}$ inches large diameter and $2\frac{1}{2}$ inches small diameter. This sickle cone is the correct shape for the grinding of sickle bars for mowers. (Sickle holder can be furnished, see No. 019 below.)

Seat, grey iron and adjustable.

Finish, red enamel with black trimmings.

Shipped, set up and well crated. Shipping weight, 80 pounds.

PRICE LIST

No. 018 Grinder, complete, each.....	\$12.50
No. 019 Sickle Holder, each.....	1.50
No. 020 Disc Holder, each.....	1.50

Discount.....

No. 019—R-W Sickle Holder



With this holder, sickle bar is held in correct position and angle for grinding. Has proven itself a very desirable attachment. We recommend one being attached to every machine. For price list, see above.

No. 020—R-W Disc Holder

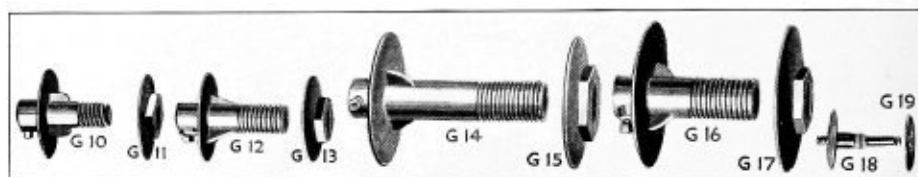


An inexpensive and dependable holder to be used when grinding discs used with cultivators, pulverizers and disc harrows.

For price list, see above.

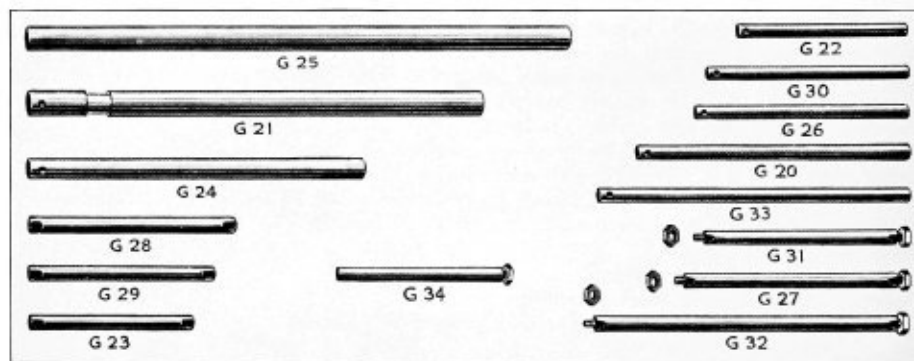
R-W Grindstone Repair List

Sleeves and Washer Nuts



No.	DESCRIPTION	Weight lbs. oz.	List Price Each
G-10	No. 013 Sleeve for stones 1 1/2" thick, bored for 1/2" round axle, used with 013	1	\$.30
G-11	No. 015 Washer nut to fit G-10, used with 013	5	.20
G-12	No. 01 Sleeves for stones 1 1/2" to 2 1/2" thick, bored for 1/2" round axle, used with 00, 01, 01 1/2, 04, 05, 010, 011, 014, 025, 300, 310, 400, 410, 710	1	.50
G-13	No. 01 Washer nut to fit G-12, used with 00, 01, 01 1/2, 04, 05, 010, 011, 014, 025, 300, 310, 400, 410, 710	8	.20
G-14	No. 02 Sleeve for stones 3 1/2" to 6" thick, bored for 1" round axle, used with 02, 08, 09	14	.70
G-15	No. 02 Washer nut to fit G-14, used with 02, 08, 09	5	.50
G-16	No. 07 Sleeve for stones 2" to 3 1/2" thick, bored for 1/2" round axle, used with 06, 07	15	.60
G-17	No. 07 Washer nut to fit G-16, used with 06, 07	2	.50
G-18	No. 320 Sleeve and axle with tapered end for Family Grindstone, used with 020, 320	7	.50
G-19	No. 320 Washer nut to fit G-18, used with 020, 320	2	.10

Axles



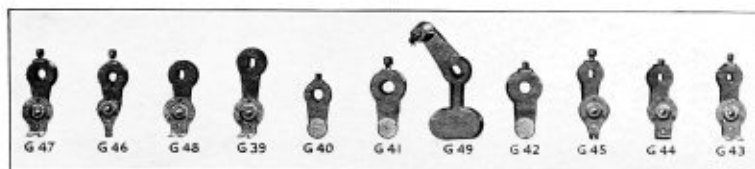
No.	DESCRIPTION	Weight lbs. oz.	List Price Each
G-20	No. 01 Axle, 1/2 in. diameter x 12 in. long with spot for set screw in each end, used with 01, 01 1/2	1	\$.20
G-21	No. 02 Axle, 1 in. diameter x 20 in. long with spot for set screw in each end, used with 02, 08	4	.50
G-22	No. 05 Axle, 1/2 in. diameter x 7 1/2 in. long with spot for set screw in each end, used with 00, 05	11	.20
G-23	No. 05 Axle, 1/2 in. diameter x 7 1/2 in. long with flattened ends, used with 05 old style	11	.20
G-24	No. 07 Axle, 1/2 in. diameter x 15 in. long with spot for set screw in one end, used with 06, 07	1	.40
G-25	No. 09 Axle, 1 in. diameter x 24 in. long, used with 09	14	.60
G-26	No. 010 Axle, 1/2 in. diameter x 9 1/2 in. long with spot for set screw in each end, used with 010 old style	5	.20
G-27	No. 010 Axle, 1/2 in. diameter x 10 in. long with tapered ends and nuts, used with 010, 011, 014, 710	13	.50
G-28	No. 011 Axle, 1/2 in. diameter x 9 1/2 in. long with flattened ends, used with 011 old style	13	.20
G-29	No. 025 Axle, 1/2 in. diameter x 8 1/2 in. long with flattened ends, used with 025 old style	12	.20
G-30	No. 300 Axle, 1/2 in. diameter x 8 1/2 in. long with spot for set screw in each end, used with 300 old style	12	.20
G-31	No. 409 Axle, 1/2 in. diameter x 9 1/2 in. long with tapered ends and nuts, used with 04, 025, 300, 310, 400	15	.50
G-32	No. 410 Axle, 1/2 in. diameter x 14 1/2 in. long with tapered ends and nuts, used with 410	1	.50
G-33	No. 410 Axle, 1/2 in. diameter x 13 1/2 in. long with spot for set screw in each end, used with 410 old style	1	.20
G-34	No. 013 Axle, 1/2 in. diameter x 6 1/2 in. long with tapered end and 1 nut, used with 013	10	.20

NOTE: Always specify by number and state catalog number of grindstone, repairs are required for, also if old or new style.

Discount, (for page).....

R-W Grindstone Repair List—Continued

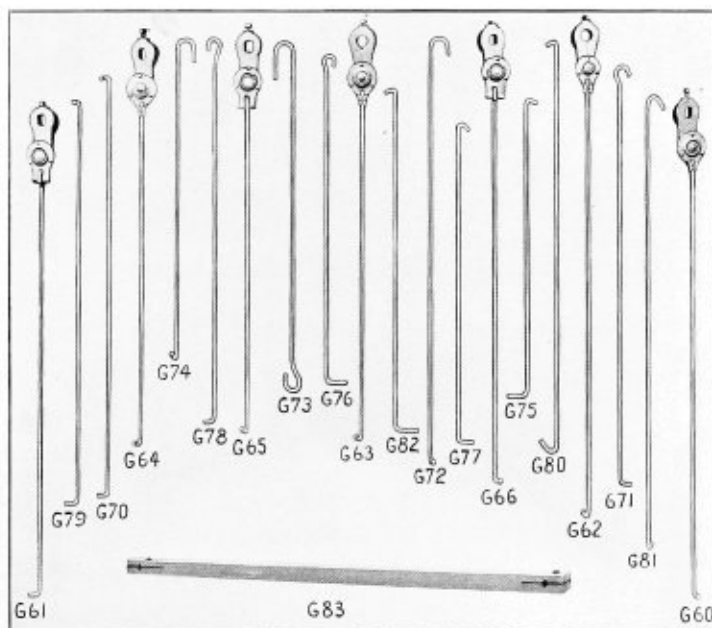
Pedal Cranks and Pedal Crank Casting Only



No.	DESCRIPTION	Weight		List Price
		lbs.	oz.	
G-39	No. 04 Pedal crank with $\frac{1}{2}$ in. tapered hole, used with 04	14		\$ 40
G-40	No. 01 Pedal crank with set screw, with round hole for $\frac{1}{2}$ in. axle, used with 01, 01 $\frac{1}{2}$, 010, 710	9		.20
G-41	No. 02 Pedal crank with set screw, with round hole for $\frac{1}{2}$ in. axle, used with 02, 08	14		.40
G-42	No. 07 Pedal crank with set screw, with round hole for $\frac{1}{2}$ in. axle, used with 06, 07	16		.30
G-43	No. 05 Pedal crank with set screw (oblong hole) assembled with G-113 Crank journal, used with 05 old style	11		.40
* G-44	No. 05 Pedal crank with set screw (oblong hole) assembled with G-112 Crank journal, used with 05 old style	11		.40
° G-45	No. 05 Pedal crank with set screw (oblong hole) assembled with G-111 Crank journal, used with 05 old style	11		.40
† G-46	No. 300 Pedal crank with set screw, $\frac{1}{4}$ in. round hole, assembled with G-111 Crank journal, used with 300 old style	11		.40
G-47	No. 300 Pedal crank with set screw, $\frac{1}{4}$ in. round hole, assembled with G-113 Crank journal, used with 300 old style, 00, 05	11		.40
G-48	No. 400 Pedal crank ($\frac{1}{4}$ in. tapered hole) assembled with G-113 Crank journal, used with 011, 014, 025, 300, 310, 400, 410	11		.40
G-49	No. 015 Pedal crank with $\frac{1}{2}$ in. tapered hole, used with 015	8		.30
G-50	No. 05 Pedal crank casting with set screw and rivet (oblong hole), used with G-43	8		.10
G-51	No. 300 Pedal crank casting with set screw and rivet ($\frac{1}{4}$ in. round hole), used with G-47	9		.10
G-52	No. 400 Pedal crank casting with rivet, no set screw ($\frac{1}{4}$ in. tapered hole), used with G-48	8		.10
G-53	No. 04 Pedal crank casting with rivet, no set screw ($\frac{1}{2}$ in. tapered hole), used with G-39	10		.10

* Manufacture discontinued, substitute G 45. ° Manufacture discontinued, substitute G-47.

Pedal Rods



Discount, (for page).....

For Price List of Pedal Rods, see page 238.

NOTE: Always specify by number and state catalog number of grindstone repairs are required for, also if old or new style.

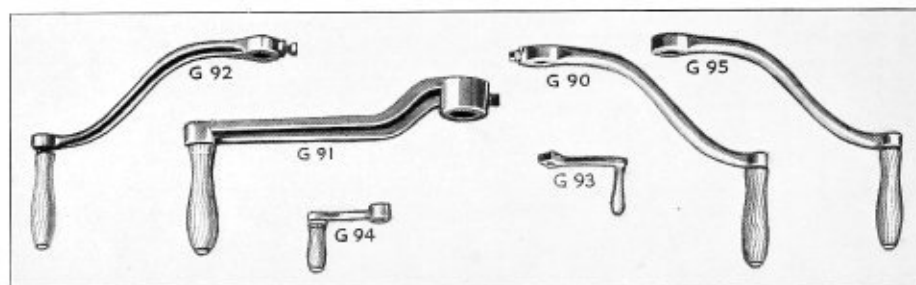
R-W Grindstone Repair List—Continued

PRICE LIST OF PEDAL RODS ILLUSTRATED ON PAGE 237

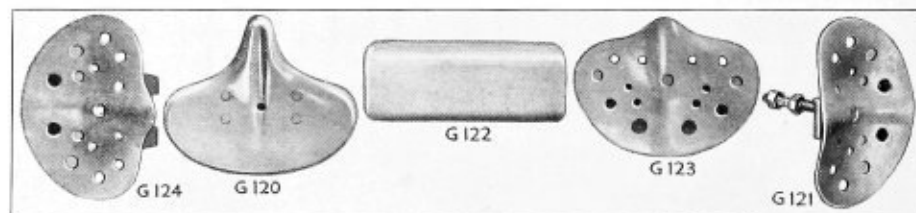
No.	DESCRIPTION	Subs.	Weight lbs. oz.	List Price Each
*G-60	G-70 Pedal rod, G-50 Pedal crank and G-111 Crank journal assembled, used with 05 old style	G-43-70		\$.60
*G-61	G-71 Pedal rod, G-50 Pedal crank and G-112 Crank journal assembled, used with 05 old style	G-43-70		.60
*G-62	G-70 Pedal rod, G-51 Pedal crank and G-111 Crank journal assembled, used with 05 old style	G-47-70		.60
*G-63	G-77 Pedal rod, G-51 Pedal crank and G-111 Crank journal assembled, used with 011 old style	G-47-77		.60
*G-64	G-77 Pedal rod, G-50 Pedal crank and G-111 Crank journal assembled, used with 011 old style	G-43-77		.60
*G-65	G-76 Pedal rod, G-50 Pedal crank and G-112 Crank journal assembled, used with 011 old style	G-43-77		.60
*G-66	G-78 Pedal rod, G-50 Pedal crank and G-112 Crank journal assembled, used with 025 old style	G-43-79		.60
G-69	No. 05 Pedal rod with two angle bends, length 24½ inches, used with 00, 05		6	.20
*G-71	No. 05 Pedal rod with one angle bend and one eye, length 24½ inches, used with 05 old style	G-70-113	6	.20
G-72	No. 07 Pedal rod with one angle bend and one loop, length 25 inches, used with 07		6	.30
G-73	No. 08 Pedal rod with one loop and one eye, length 20½ inches, used with 08		5	.30
G-74	No. 010 Pedal rod with one angle bend and one loop, length 18½ inches, used with 010-710		5	.20
G-75	No. 010 Pedal rod with two angle bends, length 17½ inches, used with 010 old style		5	.20
*G-76	No. 011 Pedal rod with one angle bend and one eye, length 19½ inches, used with 011 old style	G-77-113	5	.20
G-77	No. 011 Pedal rod with two angle bends, length 19½ inches, used with 011, 014		5	.20
*G-78	No. 025 Pedal rod with one angle bend and one eye, length 23½ inches, used with 025 old style	G-79-113	6	.20
G-79	No. 025 Pedal rod with two angle bends, length 23½ inches, used with 025		6	.20
G-80	No. 300 Pedal rod with one angle bend and one loop, length 23½ inches, used with 300, 400		6	.20
G-81	No. 310 Pedal rod with one angle bend and one loop, length 26 inches, used with 310		7	.20
G-82	No. 410 Pedal rod with two angle bends, length 18½ inches, used with 410		5	.20
G-83	No. 013 Pedal rod. Wood ½x1½x32 inches, used with 013		7	.30

*This mark before a number indicates that the manufacture of that part has been discontinued and is replaced by numbers given in "substitute" column.

Hand Cranks and Seats



No.	DESCRIPTION	Weight lbs. oz.	List Price Each
G-90	No. 01 Hand crank 1½ inch round hole and set screw, used with 01, 014, 010, 350 old style	1 2	\$.30
G-91	No. 02 Hand crank 1 inch round hole and set screw, used with 02, 08	2 14	.50
G-92	No. 07 Hand crank ¾ inch round hole and set screw, used with 06, 07	1 2	.40
G-93	No. 020 Hand crank square hole, used with W-020	4	.20
G-94	No. 320 Hand crank round tapered hole for ½ inch diameter axle, used with 320	4	.20
G-95	No. 410 Hand crank tapered hole for ½ inch diameter axle, no set screw, used with 410, 710	1 2	.30

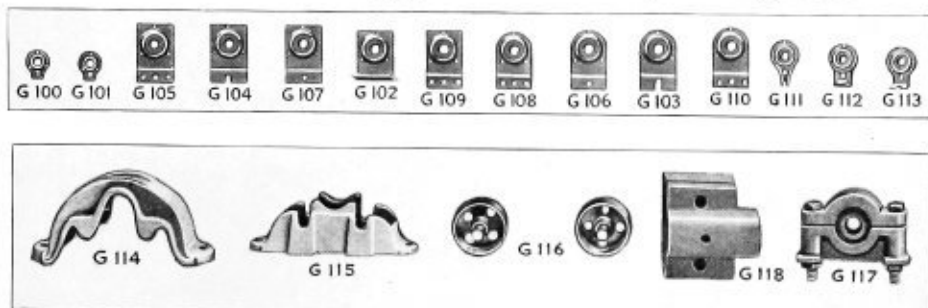


No.	DESCRIPTION	Weight lbs. oz.	List Price Each
G-120	No. 05 Seat, Steel, used with 00, 05	1 5	\$.40
G-121	No. 014 Seat, Gray Iron, used with 014	3 1	.40
G-122	No. 025 Seat, Gray Iron, used with 025	1 7	.40
G-123	No. 310 Seat, Gray Iron, used with 011, 310	2 2	.40
G-124	No. 400 Seat, Gray Iron, used with 300, 400	2 4	.40

NOTE: Always specify by number and state catalog number of grindstone repairs are required for, also if old or new style.

R-W Grindstone Repair List—Continued

Ball and Roller-Bearing Journals and Heavy Bearing Boxes



No.	DESCRIPTION	Subs.	Weight lbs. oz.	List Price Each
G-100	No. 020 Journal for No. 029 Family Grindstone, used with W-020		1	\$.20
G-101	No. 320 Journal for No. 320 Family Grindstone, used with 320		1	.20
G-102	No. 01 Ball bearing journal, for $\frac{1}{2}$ in. diam. axle and wood grindstone frame, 01; 011, 010, 011, 014, 710		5	.40
G-103	No. 05 Ball bearing journal, round top, for $\frac{1}{2}$ in. diameter axle and steel frame, used with 05 old style	G-104	5	.40
G-104	No. 05 Ball bearing journal, square top, for $\frac{1}{2}$ in. diameter axle and steel frame, used with 00, 05		5	.40
G-105	No. 025 Ball bearing journal, round top for $\frac{1}{2}$ in. diameter axle and steel frame, used with 025	G-107	5	.40
G-106	No. 300 Ball bearing journal, round top for $\frac{1}{2}$ in. diameter axle and steel frame, used with 300 old style		5	.40
G-107	No. 025 Ball bearing journal, square top for $\frac{1}{2}$ in. diam. axle and steel frame, used with 04, 013, 300, 400, 410	G-109	5	.40
G-108	No. 310 Ball bearing journal, round top for $\frac{1}{2}$ in. diam. axle and wood frames, used with 310 old style		5	.40
G-109	No. 310 Ball bearing journal, square top for $\frac{1}{2}$ in. diam. axle and wood frames, used with 310, 330		5	.40
G-110	No. 300 Roller bearing journal, for $\frac{1}{2}$ in. diameter axle and steel frames, used with 025, 300, 400, 410		6	.40
G-111	No. 05 Ball bearing crank journal, old style, used with 05 old style	G-115	3	.15
G-112	No. 05 Ball bearing crank journal for hinged pedal rods, used with 05 old style	G-115	3	.15
G-113	No. 300 Ball bearing crank journal, used with 00, 04, 05, 025, 300, 310, 330, 400, 410		3	.15
G-114	No. 02 Bearing cover, used with 02, 08		1 13	.20
G-115	No. 02 Bearing base, used with 02, 08		1 8	.20
G-116	No. 02 Bearing roller wheel, used with 02, 08		6 1	.10
G-117	No. 07 Ball bearing, for power grinstones, used with 06, 07		2 1	1.00
G-118	No. 09 Habbited bearing, used with 09		4 13	1.50

*This mark before a number indicates that the manufacture of that part has been discontinued and is replaced by numbers given in "substitute" column.

Miscellaneous

G 130

G 135

G 136

G 137

G 138

G 139

G 140

G 131

G 132

G 133

G 134

No.	DESCRIPTION	Subs.	Weight lbs. oz.	List Price Each
*G-130	No. 025 Water can rod, round wire	G-131	5	\$.20
G-131	No. 025 Water can rod, flat stock		8	.20
G-132	No. 300 Water can rod, flat stock		9	.20
G-133	No. 310 Water can rod, round wire		8	.20
*G-134	No. 410 Water can rod, flat stock	G-131	8	.20
G-135	No. 320 Clamp for family grindstone		5	.20
G-136	No. 300 Water cup		5 1	.20
G-137	No. 300 Journal shield		1	.10
G-138	No. 025 Leg clamp		5	.20
G-139	No. 025 Right hand tee joint, patt 296		1 9	.30
G-140	No. 025 Left hand tee joint, patt 297		1 9	.30

*This mark before a number indicates that the manufacture of that part has been discontinued and is replaced by numbers given in "substitute" column.

Discount, (for page).....

NOTE: Always specify by number and state catalog number of grindstone repairs are required for, also old or new style.



No. 130 R-W Tiger Steel Wagon Jack

MADE IN THREE SIZES
LOCKING AUTOMATICALLY

The Tiger is a powerful jack, operated by pinion and lever, and is so constructed that the greatest possible leverage is obtained. When the load is lifted and the handle is down the jack becomes locked and holds load in position until lever is raised.

Made in three sizes. Finish, japan.

Weight, per dozen: No. 0, 70 pounds; No. 1, 130 pounds; No. 2, 175 pounds.

Capacity: No. 0, buggy size, 500 pounds; No. 1, 1000 pounds; No. 2, 1800 pounds. Packed in one dozen and half dozen crates.

PRICE LIST

No. 0, per dozen.....	\$10.80
No. 1, per dozen.....	14.40
No. 2, per dozen.....	21.60

Discount.....



PAT. AUG., 1904

No. 228 R-W Steel Wagon Jacks

(WILCOX No. 228)
MADE IN FOUR SIZES



Made entirely of steel, in four sizes. Operated by compound levers. Lifts perpendicularly. Finish, japan.

Weight, per dozen: No. 1, 78 pounds; No. 2, 150 pounds; No. 3, 204 pounds; No. 4, 350 pounds.

Capacity: No. 1, 500 pounds; No. 2, 1000 pounds; No. 3, 1500 pounds; No. 4, 2000 pounds. Packed in one dozen and half dozen crates.

PRICE LIST

No. 1, per dozen.....	\$11.50
No. 2, per dozen.....	14.00
No. 3, per dozen.....	25.70
No. 4, per dozen.....	57.00

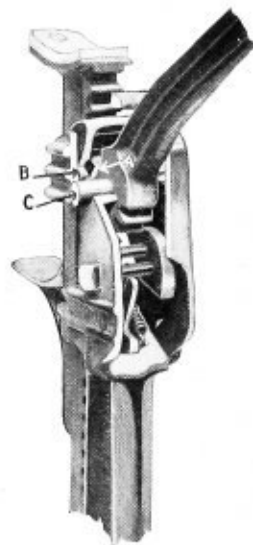
Discount.....



No. 328 R-W Union Auto Jack



PATENTED APRIL 6, 1912



SECTIONAL VIEW

Most auto jacks have one particular strong feature. Such jacks are fairly good, but have weak points. Some are not positive in operation. Some are complicated with a large number of parts to easily get out of order. Some are heavy and bulky, and require too much space in tool box.

An auto jack is just as strong as its weakest point—not its strongest.

There are no weak points in the Union.

In the first place, it is composed of only five malleable iron pieces, while other jacks have twice this number of castings. This is why the Union is so much more simple in construction—easy and sure in operation—why it is light in weight—so handy and so neat in appearance.

The Union gives better and longer service than any other jack on the market.

Foot of jack is extra large and lifting bar is equipped with two lift brackets for use on high or low cars, or when cars are sunk in mud. Height of first lift bracket in low position is $7\frac{3}{4}$ inches; height of second lift bracket in low position is 12 inches; lift, $6\frac{1}{2}$ inches.

Weight, per dozen, 100 pounds.

Packed, one-half dozen in a crate.

PRICE LIST

No. 328 Auto Jack, per dozen.....\$24.00

Discount.....



No. 136
R-W Comfort Folding Third Buggy Seat



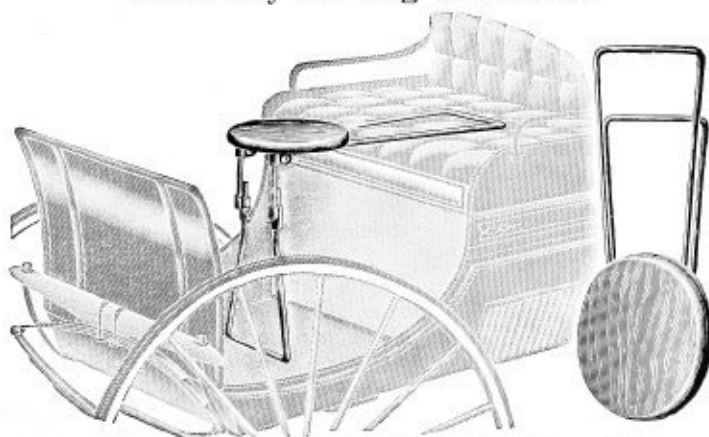
This seat does not occupy more than 3 inches space between two persons, and affords a comfortable seat for a third person. Folds up when not in use.

Frame made of $\frac{3}{8}$ -inch round Bessemer steel. Carpet seat, made of good grade body-brussels carpet, in attractive designs. Finish, black enamel. Packed in bulk. Weight, per dozen, 40 pounds.

PRICE LIST	
No. 136 Folding Third Buggy Seat, per dozen.....	\$12.00

Discount.....

No. 236
R-W Easy Folding Third Seat

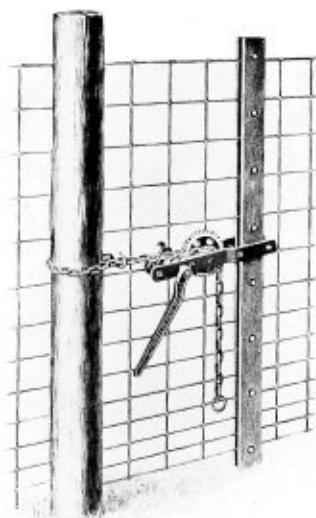


The most comfortable, convenient and durable third seat on the market. Seat made of hardwood; frame, $\frac{3}{8}$ -inch round Bessemer steel. Seat finished, golden oak and mahogany; frame, black enamel. Adjustment to accommodate buggy seat, 14 to 18 inches high. Packed one dozen in a crate. Weight, per dozen, 55 pounds.

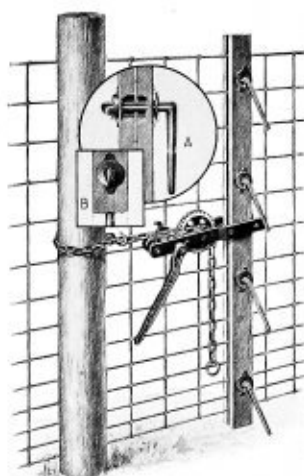
PRICE LIST	
No. 236 Folding Third Seat, per dozen.....	\$14.40

Discount.....

No. 331 R-W Hercules Fence Stretcher



WITH COMMON CLAMP



WITH No. 385 R-W QUICK ACTING CLAMP

Made of malleable iron and steel. No ratchets or pawls to be released. Quick and powerful. Will operate either right or left hand.

Finish, japan. Packed one set in box with 8 feet BB Proof Tested Steel Chain.

One set of No. 331 wooden clamps, complete with bolts, sent with each stretcher. Clamps are made from selected, well-seasoned hardwood. Six carriage bolts with tail nuts, furnished with each set. We recommend the use of the No. 385 Quick Acting Clamp, as illustrated and described above.

No. 385 Quick Acting Clamp made from selected, well seasoned hardwood. Each clamp is equipped with four malleable iron tighteners. A half oval steel strip is attached on the inside face of each wooden clamp, which gives same a secure grip on the wire fencing. The tighteners can be attached and detached in an instant, no wrench being required.

Weight, complete, with regular clamp, each, 50 pounds. With No. 385 clamp, 65 pounds. No. 385 clamp only, 30 pounds.

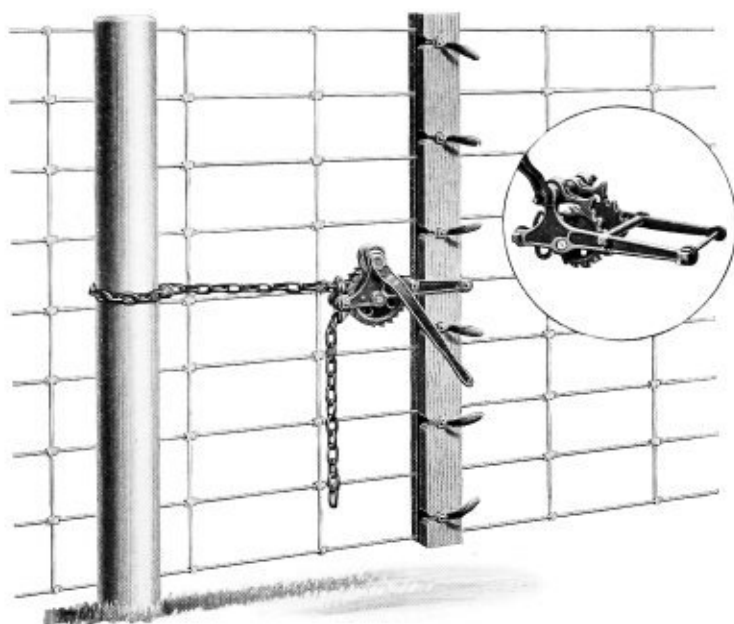
PRICE LIST

No. 331 Fence Stretcher, regular clamp, each.....	\$6.50
No. 331 Fence Stretcher, with No. 385 clamp, each.....	9.50
No. 385 Quick Acting Clamp only, each.....	4.50

Discount.....

NOTE—Unless otherwise specified, fence stretcher with regular clamp will be sent.

No. 731 R-W Dragon Fence Stretcher and Hoist



Made of malleable iron. Pawls have hardened roller bearings and are operated by crank shaft. The lever handle can be operated continuously in one direction or backward and forward. Can be operated from either side of fence.

Can be used for pulling stumps, as a hoist when skinning beef, lifting a sick horse, pulling pipe from pumps, lifting heavy wagon boxes, etc.

Finish, red enamel. Packed one set in box with 8 feet BB Proof Tested Steel Chain.

One set of No. 331 wooden clamps, and bolts furnished with each stretcher. We recommend the use of the No. 385 Quick-Acting Clamp, as illustrated and described on opposite page.

Weight, complete, with regular clamp, each 40 pounds. With No. 385 clamp, each 60 pounds. No. 385 clamp only, 30 pounds.

PRICE LIST

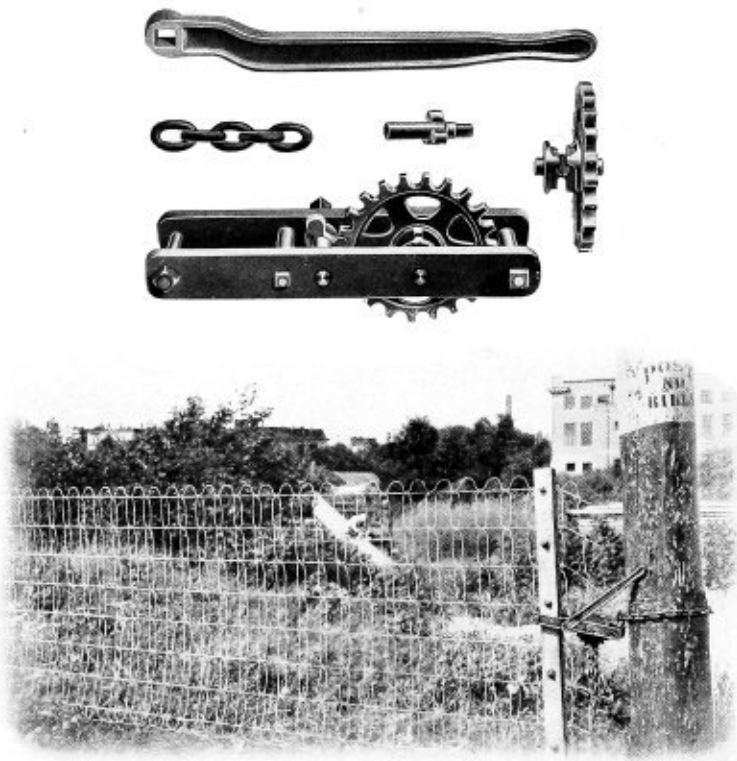
No. 731 Fence Stretcher, regular clamp, each.....	\$ 7.00
No. 731 Fence Stretcher, with No. 385 clamp, each.....	10.00
No. 385 Quick Acting Clamp, only, each.....	4.50

Discount.....

NOTE—Unless otherwise specified, fence stretcher with regular clamp will be sent.

No. 531 R-W Giant Fence Stretcher

(WILCOX No. 231)



Made of malleable iron and steel. No ratchets or pawls to be released. Quick and powerful. This fence stretcher has proven very popular with the trade.

Finish, japan. Packed one set in box with 8 feet BB Proof Tested Steel Chain.

One set of No. 331 wooden clamps, complete with bolts, sent with each stretcher. Clamps are made from selected, well-seasoned hardwood. Six carriage bolts with tail nuts, furnished with each set. We recommend the use of the No. 385 Quick Acting Clamp, as illustrated and described on page 244.

Weight, complete with regular clamp, each, 50 pounds. With No. 385 Clamp, 65 pounds. No. 385 Clamp only, 30 pounds.

PRICE LIST

No. 531 Fence Stretcher, regular clamp, each.....	\$6.00
No. 531 Fence Stretcher, with No. 385 clamp, each.....	9.00
No. 385 Quick Acting Clamp only, each.....	4.50

Discount.....

NOTE—Unless otherwise specified, fence stretcher with regular clamp will be sent.



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



No. 234 $\frac{1}{2}$ R-W Ellwood Wire Stretcher

(WILCOX No. 234 $\frac{1}{2}$)



Made of malleable iron and steel. Finish, natural. Wired one-half dozen in a bundle. Weight, per dozen, 70 pounds.

PRICE LIST

Per dozen.....\$10.00

Discount.....

No. 240 R-W Tackle Block and Wire Stretcher

(WILCOX No. 233)



Made of malleable iron and steel. Automatic lock or clamp disengaged by slight movement of hand rope. Swivel hook. Packed with 16 $\frac{1}{2}$ feet of $\frac{3}{8}$ -inch rope. Weight, per dozen, 55 pounds.

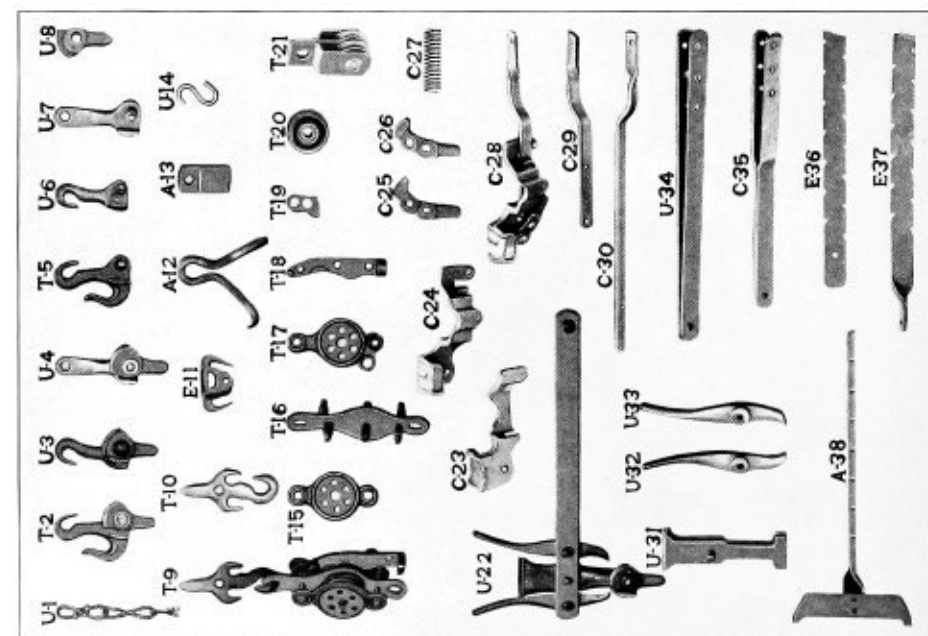
PRICE LIST

Per dozen.....\$12.00

Discount.....

Repair List—Fence and Wire Stretcher Parts

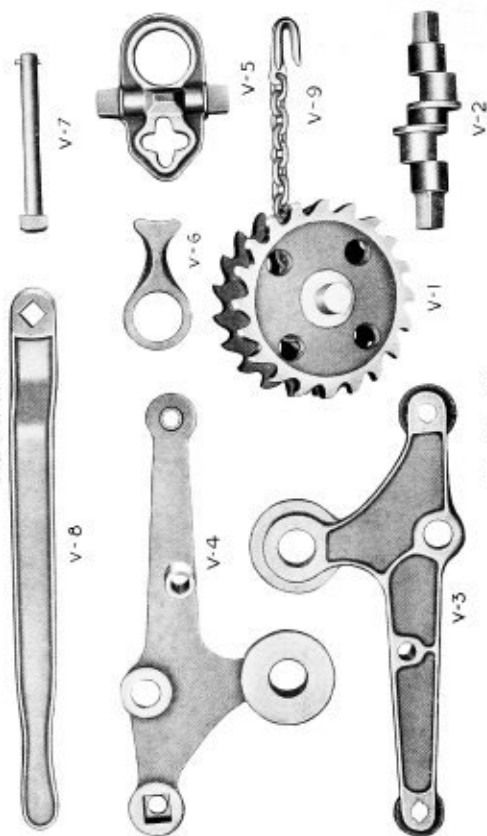
For No. 331



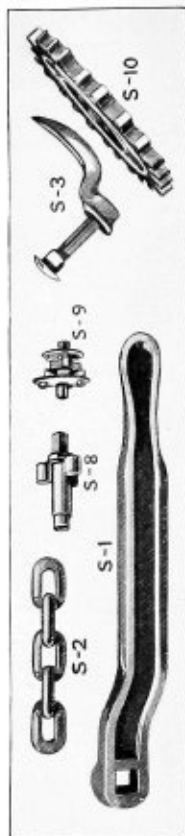
PRICES AND DESCRIPTION ON OPPOSITE PAGE



For No. 731



For No. 531





Price List—Fence and Wire Stretcher Parts

U— 1 Chain, 28 inches long, for 232, 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, 240, each.....	\$.30
T— 2 Wire clamp and hook, for 240, each.....	.20
U— 3 Wire clamp, for 232, 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, 240, each.....	.20
U— 4 Wire clamp, for 234 $\frac{1}{2}$, each.....	.20
T— 5 Part of clamp, for 240, each.....	.15
U— 6 Part of clamp, for 232, 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, 240, each.....	.15
U— 7 Part of clamp, for 234 $\frac{1}{2}$, each.....	.15
U— 8 Dog for wire clamp, for 232, 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, 240, each.....	.08
T— 9 Top block complete, for 240, each.....	.75
T—10 Chain hook, for 240, each.....	.10
E—11 End piece for bar, for 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, each.....	.10
U—14 S hook, for 232, each.....	.06
T—15 Side plate, top block, for 240, each.....	.08
T—16 Main frame, top block, for 240, each.....	.25
T—17 Side plate, top block, for 240, each.....	.10
T—18 Rope guide, for 240, each.....	.15
T—19 Rope dog or grip, for 240, each.....	.08
T—20 Wheels, for 240, each.....	.06
T—21 Lower block, complete, for 240, each.....	.50
U—22 Slide bar sleeve, ratchets and handle, for 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, each.....	.60
C—23 Front come-along, for 232, each.....	.20
C—24 Rear come-along, for 232, each.....	.20
C—25 Right hand dog, for 232, each.....	.10
C—26 Left hand dog, for 232, each.....	.10
C—27 Bar Spring, for 232, each.....	.12
C—28 Come-along complete, for 232, each.....	.50
C—29 Short bar, for 232, each.....	.10
C—30 Long bar, for 232, each.....	.15
U—31 Bar sleeve, for 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, each.....	.15
U—32 Left hand ratchet, for 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, each.....	.10
U—33 Right hand ratchet, for 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, each.....	.10
U—34 Handle, for 234 $\frac{1}{2}$, 234 $\frac{1}{2}$, each.....	.30
C—35 Handle, for 232, each.....	.30
E—36 Ratchet bar, for 234 $\frac{1}{2}$, each.....	.50
E—37 Ratchet bar, for 234 $\frac{1}{2}$, each.....	.50
S— 1 Handle for 331, 531, each.....	1.00
S— 2 Chain for 331, 531, each.....	1.50
S— 3 Bolt with tail nut, for 331, 531, each.....	.20
S— 4 Pawl for 331, each.....	.20
S— 5 Pinion for 331, each.....	.70
S— 6 Chain sprocket for 331, each.....	.60
S— 7 Gear wheel, for 331, each.....	1.50
S— 8 Pinion, for 531, each.....	.60
S— 9 Chain cog, for 531, each.....	.70
S—10 Cog wheel, for 531, each.....	1.40
V— 1 Sprocket, for 731, each.....	.70
V— 2 Crank shaft, for 731, each.....	.70
V— 3 Frame, right hand, for 731, each.....	.65
V— 4 Frame, left hand, for 731, each.....	.65
V— 5 Chain guide, for 731, each.....	.35
V— 6 Pawl, for 731, each.....	.20
V— 7 Slip pin, for 731, each.....	.20
V— 8 Lever handle, for 731, each.....	1.00
V— 9 Chain, for 731, each.....	1.50
No. 331 Regular clamp, complete, for 331, 531, 731, each.....	1.50
No. 385 Quick acting clamp, complete, for 331, 731, 531, each.....	4.50

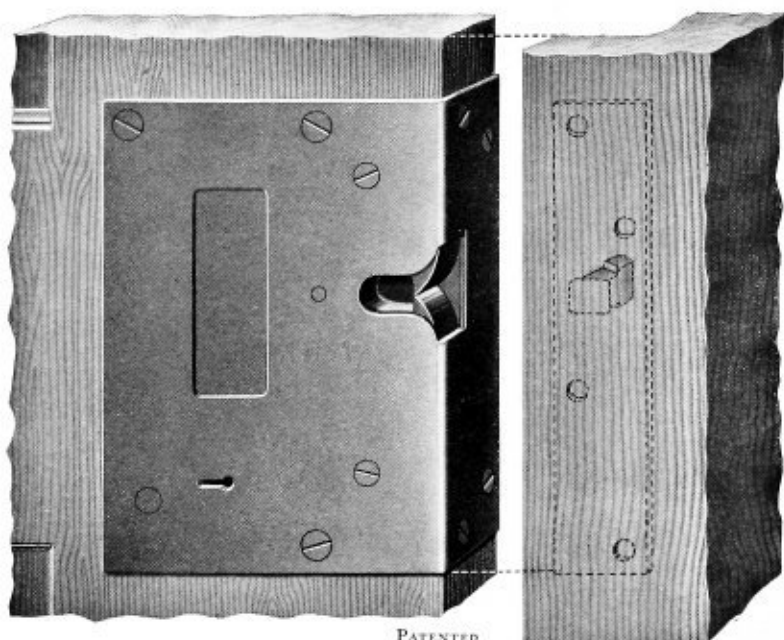
NOTE—Always specify by number and state number of wire stretcher, repairs are required for.



No. 510 R-W Nobreak Sliding Door Lock

MADE IN TWO SIZES

FOR GARAGES, STABLES, WAREHOUSES, FACTORIES, BOAT HOUSES, ETC.
FOR BOTH SINGLE AND DOUBLE DOORS



PATENTED

Made of steel with malleable jaws.

The Nobreak Lock is made flush with the door on both sides and can be operated from both outside and inside. The act of closing the door latches it, and to unlatch it simply press back the hand-hole or flush pull cover with the fingers. This is a valuable feature, for with other sliding door locks it is necessary to use a key not only to unlock the door but also each time it is unlatched. The key is used only to lock or unlock the door. To latch or unlatch no key is necessary, the action being automatic with the opening or closing of the door.

The use of the blind screw studs on the outside makes lock practically burglar-proof. They are reversible, for either right or left hand doors, single or double.

The Nobreak serves as a lock, latch, and door pull combined. The door, not the lock, receives the blow when door strikes jamb. There are no projections on which to catch harness or clothing.

No. 1 size adjustable for doors $1\frac{3}{4}$ to $2\frac{1}{4}$ inches; No. 2, $2\frac{1}{2}$ to 3 inches thick. Width of lock, $5\frac{1}{2}$ inches.

Packed one in metal edge box, complete with screws, strike plate for doors, two keys and templet for setting lock.

Special strike furnished for double doors. Keys are numbered for twelve changes to each dozen locks. On panel doors outer stiles should be 6 inches wide. Weight, 70 pounds per dozen.

PRICE LIST

No. 510 No. 1 or No. 2 Lock, regular finish, dead black, per dozen.....	\$30.00
No. 510 No. 1 or No. 2 Lock, bronze plated or old copper, per dozen.....	48.00
No. 510 No. 1 or No. 2 Lock, solid brass, polished, per dozen.....	54.00

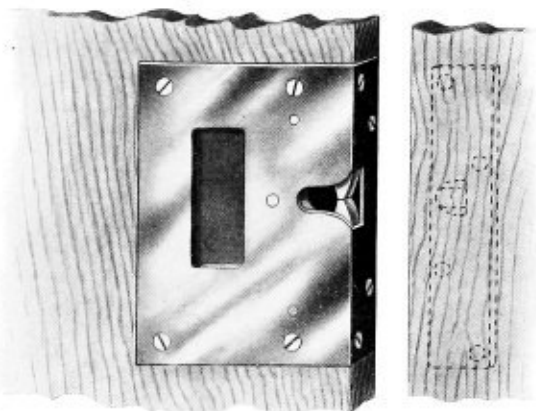
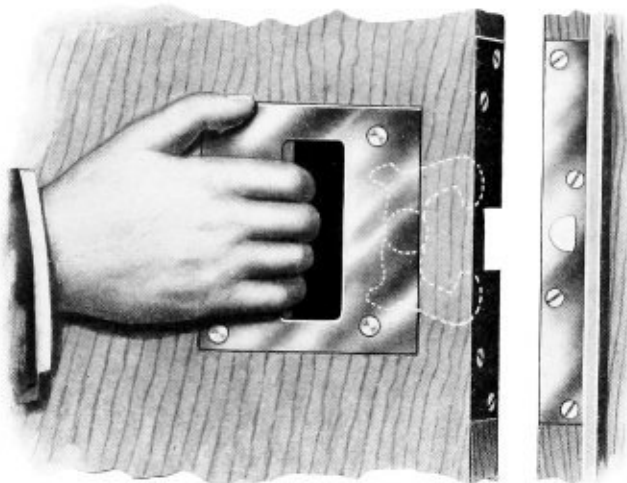
Discount.....

NOTE—Locks sent for single doors in No. 1 size, unless otherwise specified.



No. 520 R-W Nobreak Sliding Door Latch

FOR GARAGES, STABLES, FACTORIES, WAREHOUSES, BOAT HOUSES, GRANARIES, ETC.
FOR BOTH SINGLE AND DOUBLE DOORS



PATENTED



Made of steel with malleable jaws. The Nobreak latch is made to fit flush in the door and can be operated from both sides. They are reversible, for either right or left hand doors.

The Nobreak serves as a latch and pull combined and is indestructible. There are no projections on which to catch harness or clothing. Adjustable for doors $1\frac{3}{4}$ to $2\frac{1}{2}$ inches thick. Width of latch, $5\frac{1}{2}$ inches. Height, $6\frac{5}{8}$ inches.

Packed one in metal edge box, complete with screws and templet for setting lock. Regularly furnished with strike for single doors. Can be furnished with strike for double doors if specified.

On panel doors outer stiles should be no less than 6 inches wide. Weight, 55 pounds per dozen.

PRICE LIST

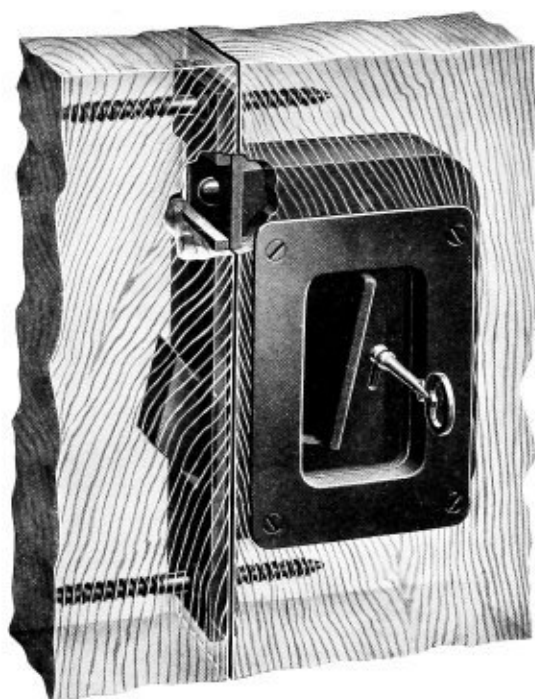
No. 520 Latch, regular finish, dead black, per dozen.....	\$15.00
No. 520 Latch, bronze plated or old copper, per dozen.....	24.00
No. 520 Latch, solid brass, polished, per dozen.....	27.00

Discount.....

NOTE—Latches sent for single doors, unless otherwise specified.

No. 525 R-W Faultless Sliding Door Lock

FOR GARAGES, STABLES, WAREHOUSES, FACTORIES, ETC.
FOR BOTH SINGLE AND DOUBLE DOORS
MORTISE TYPE



Made of steel and malleable iron.

For sliding doors $1\frac{3}{4}$ inches thick or thicker, also suitable for right angle doors. Thirty-three changes of keys. Lock, latch and flush door pull combined. Operated from either side of door. For single or double doors. Latch is released and door pulled open by same movement.

Latch piece and trip made of malleable iron. Steel flush cups. Steel keeper plate.

Mortise case, $4\frac{3}{4}$ inches high by $3\frac{3}{4}$ inches wide by $\frac{3}{8}$ inch thick.

Finish, regular, rustless dead black. Other finishes can be furnished on application. Write for prices.

Packed one lock in metal edge box, complete with screws and templet for setting lock. Weight, 45 pounds per dozen.

PRICE LIST

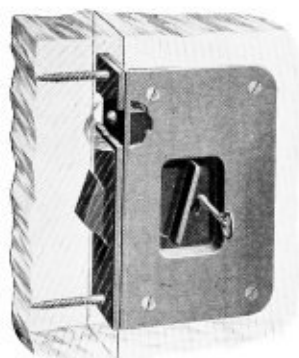
No. 525 Lock, regular finish, dead black, per dozen.....\$30.00

Discount.....

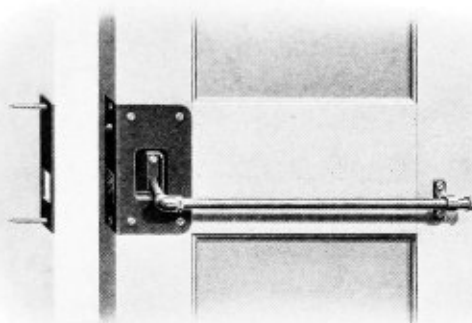


No. 825 R-W Sliding Door Lock

FOR GARAGES, ELEVATORS, WAREHOUSE FACTORIES, ETC. FOR BOTH SINGLE AND DOUBLE DOORS
HALF MORTISE TYPE. MADE IN TWO STYLES



No. 825-1



No. 825-2

No. 1 made of steel and malleable iron. No. 2 made of steel and malleable iron and furnished with brass handle bar.

For sliding doors $1\frac{3}{4}$ inches thick or thicker. Thirty-three changes of keys. Lock, latch and flush door pull combined. Operated from one side or both sides of door. For single or double doors. Latch is released and door pulled open by same movement.

Latch-piece and trip made of malleable iron. Steel flush cup and door plate. Steel keeper plate. Mortise case $4\frac{1}{2}$ inches high by $3\frac{3}{4}$ inches wide by $\frac{3}{8}$ inch thick.

Finish, regular, rustless dead black; bronze plated or solid brass.

Packed one lock in metal edge box, complete with screws and templet for setting lock. Weight, 45 pounds per dozen.

No. 825-2 lock is covered by above description and in addition to which we furnish brass handle bar, extending entirely across the door. Handle reversible right or left.

This type of lock is especially designed for use on elevator doors. Weight, 65 pounds per dozen.

PRICE LIST

No. 825-1 Lock, regular finish, dead black, per dozen.....	\$30.00
No. 825-1 Lock, bronze plated, per dozen.....	48.00
No. 825-1 Lock, solid brass, polished, per dozen.....	54.00
No. 825-2 Lock, regular finish, dead black, per dozen.....	48.00
No. 825-2 Lock, bronze plated, per dozen.....	66.00
No. 825-2 Lock, solid brass, polished, per dozen.....	72.00

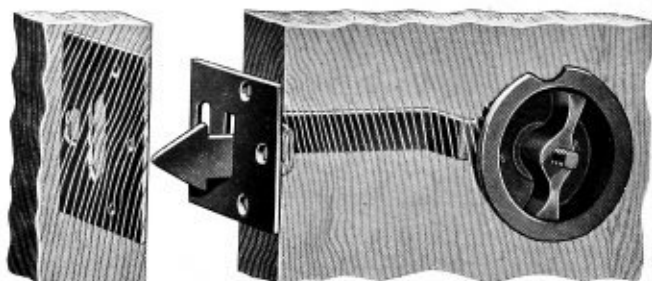
Discount.....

Directions for Ordering—State width of door when No. 825-2 locks are required.



No. 124 R-W Arrow Steel Sliding Door Latch

ADJUSTABLE AND REVERSIBLE



This latch is designed for sliding doors on barns, mills, warehouses, etc. Adjustment for doors from $1\frac{3}{4}$ to $2\frac{5}{8}$ inches thick. Latch, $8\frac{1}{2}$ inches long, $\frac{3}{4}$ inches wide, $\frac{1}{8}$ inch thick. Reversible for right or left doors, arranged for locking with padlocks. Finish, black enamel. Packed one dozen in wood box. Weight, per dozen, 26 pounds.

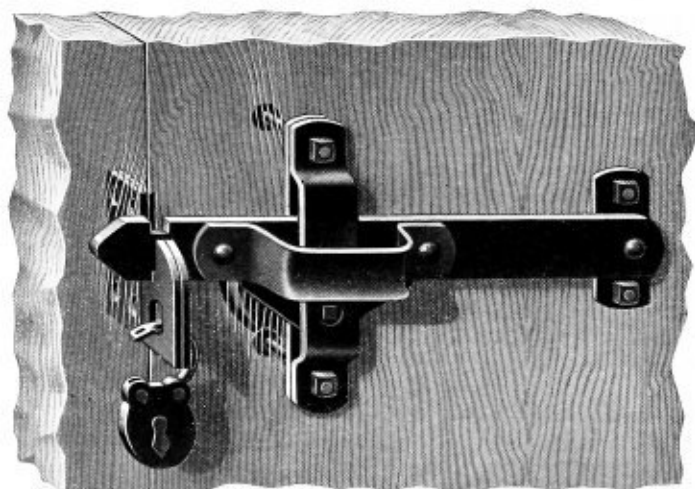
PRICE LIST

No. 124 Latches, per dozen.....\$4.80

Discount.....

No. 152 R-W Monarch Sliding Door Latch

(WILCOX No. 152) (RICHARDS No. 126)



COMBINATION LOCK AND LATCH—OPERATED FROM EITHER SIDE OF DOOR

For swinging or sliding doors. Reversible for right or left hand doors. Made entirely of steel. Latch, 14 inches long, $1\frac{1}{2}$ inches wide, $\frac{5}{16}$ inch thick. Adjustable for doors from $1\frac{3}{4}$ inches to $2\frac{5}{8}$ inches thick. Finish, japan. Packed one latch in metal edge box. Weight, per dozen, 70 pounds.

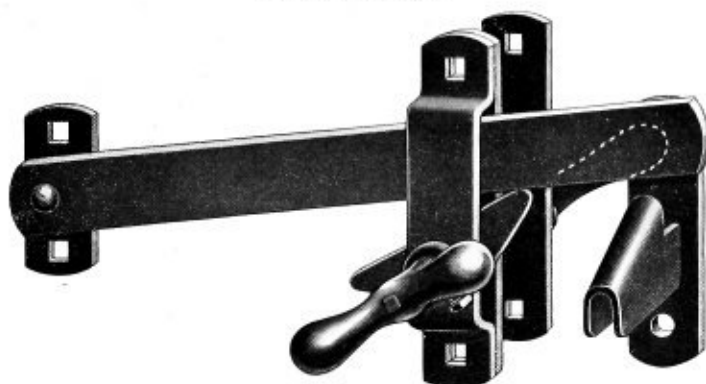
PRICE LIST

No. 152 Latches, per dozen.....\$11.70

Discount.....

No. 225 R-W Lion Steel Latch

(No. 3 SIZE—WILCOX No. 150)
MADE IN FOUR SIZES



For swinging doors only. Reversible for right or left hand doors. Can be operated from either side of door. Nos. 1, 2 and 3 adjustable for doors $1\frac{1}{2}$ to $2\frac{1}{2}$ inches thick. No. 4 for doors up to 3 inches thick. Handles on No. 1 and 2, grey iron; No. 3 and 4, malleable iron.

No. 4 is extra heavy in construction.

Nos. 1 and 2 are for light doors; No. 3 for medium doors and No. 4 for extra heavy warehouse doors.

Finish, japan. Packed, Nos. 1 and 2, one dozen in wood box; Nos. 3 and 4, one latch in metal edge box.

PRICE LIST

Number	Latch Bar Inches	Weight Pounds	Per Dozen
225-1	10 x 1 x $\frac{1}{2}$	35	\$ 8.00
225-2	12 x $1\frac{1}{4}$ x $\frac{1}{2}$	42	10.00
225-3	14 x $1\frac{1}{2}$ x $\frac{3}{8}$	75	12.00
225-4	14 x $1\frac{1}{2}$ x $\frac{1}{2}$	82	14.40

Discount.....

No. 125 R-W Bull Dog Steel Latch

FOR WAREHOUSES AND FACTORY DOORS

For heavy swinging doors. Reversible for right or left doors. Screw adjustment on spindle to suit doors up to 3 inches thick. Dimensions of latch bar, $14 \times 1\frac{1}{2} \times \frac{1}{8}$ inches.

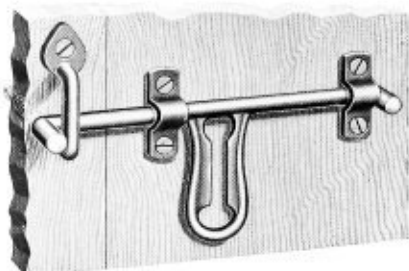
PRICE LIST

Price, per dozen.....\$12.00

Discount.....



Nos. 128-1 and 128-2 R-W Dandy Door Bolt and Gravity Latches



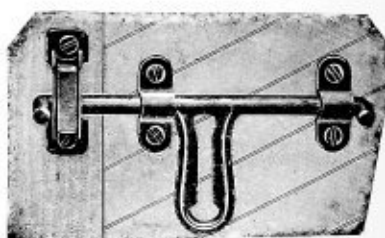
No. 128-1, WITH LAG SCREW KEEPER

versible for right or left hand doors. Bolt, malleable iron. Staples, steel. For swinging or sliding, inside or outside doors. Can be securely locked with padlock. Especially adapted for box stalls, gates and inside doors, as it cannot be opened by horses or cattle. Reversible for right or left hand doors. Latch bolt, $\frac{1}{2}$ inch diameter, 8 inches long. Finish, black enamel. No. 128-2 same as No. 128-1 except latch-keeper. Finish black enamel. Packed one dozen sets in metal edge box with screws. Weight, per doz. sets, No. 1, 13 $\frac{1}{2}$ lbs.; No. 2, 13 lbs.

PRICE LIST

No. 128-1 or 2 Gravity Latch, per dozen sets.....\$3.00

Discount.....



No. 128-2, (WILCOX No. 215-3)
WITH FLAT STEEL KEEPER

Nos. 181 and 281 R-W American Screen Door Catches

THE CATCH THAT LATCHES
THE LATCH THAT CATCHES
THE LOCK THAT HOLDS

This catch prevents warping, swinging or rattling of doors. Can be used on right or left flush or lapping doors. For use on screen, storm, cupboard or cabinet doors. Made in two styles; plain and with lock. Made of steel and finished

in black enamel, baked to a hard finish. The addition of locking attachment does away with necessity for either a bolt or hook and staple. Locks only when lever is pressed into position.

Cannot possibly lock itself. Packed complete with screws and templet, one dozen in a box. Weight, per dozen: No. 181, 2 pounds; No. 281, 2 $\frac{1}{2}$ pounds.

PRICE LIST

No. 181 Door Catch, per dozen.....\$1.30
No. 281 Door Catch and Lock, per dozen.....1.60

Discount.....

No. 129 R-W Gravity Door Catch

(WILCOX No. 252)

As shown in the illustration, this is an automatic gravity catch. Made of grey iron. Finish, japan. Packed one dozen in metal edge box. Weight, per dozen, 6 $\frac{1}{2}$ pounds.

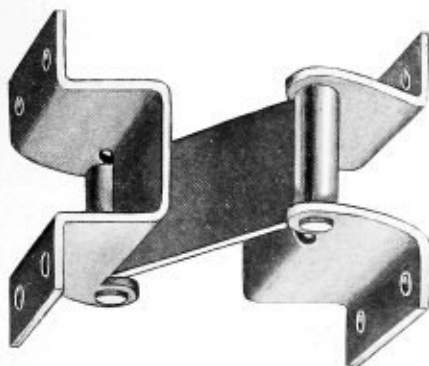
PRICE LIST

No. 129 Gravity Catch, per dozen.....\$1.00

Discount.....



No. 194 R-W Ericson Double Acting Gate Hinge



Made of steel and malleable iron. Cannot be incorrectly applied. Finish, japan. Packed complete with screws. One set in a box. Weight, per dozen sets, without latches, 20 pounds.

PRICE LIST

No. 194 Hinges only, per dozen sets.....\$7.60

Discount.....

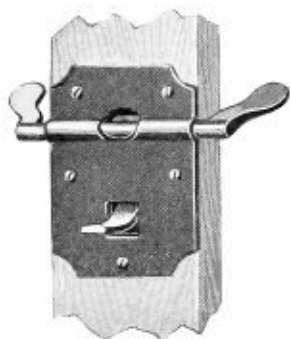
No. 196 R-W Ericson Gate Latch

Made of steel and malleable iron. Only adjustable gate latch made. Overcomes shrinking of gate posts, etc. Finish, japan. Packed complete with screws. One set in a box. Weight, per dozen sets, 16½ pounds.

PRICE LIST

No. 196 Latches only, per dozen sets.....\$3.00

Discount.....



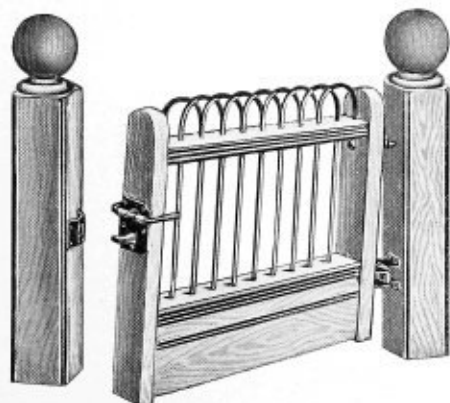
No. 194-196 R-W Ericson Gate Hinge and Latch

Made of steel and malleable iron. Cannot be incorrectly applied. Finish, japan. Packed complete with screws. One pair of hinges and one latch in a box. Weight, per dozen sets, with latches, 34 pounds.

PRICE LIST

No. 194-196 Hinge and Latch, complete, per dozen sets\$10.60

Discount.....



No. 03 R-W Hinges MADE IN THREE STYLES



No. 03-1—GIVE THICKNESS OF WALL



No. 03-2



No. 03-3

No. 03-1—Pintel Heads, heavy steel, with machine bolt to pass through wall. Hinge straps, made of steel, $\frac{3}{8}$ inch thick by $2\frac{1}{2}$ inches wide. Made for flush and lap doors. When ordering, state thickness of wall and thickness of door. Unless otherwise specified, pintels for lap doors will be sent.

No. 03-2—Pintels, malleable iron, $4\frac{1}{2}$ inches high, $3\frac{1}{2}$ inches wide, measuring from center of eye. Hinge straps, made of steel, $\frac{3}{8}$ inch thick by $2\frac{1}{2}$ inches wide.

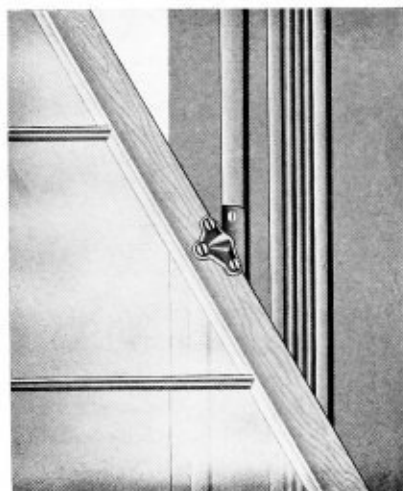
No. 03-3—Pintels, malleable iron, 7 inches high, $2\frac{1}{4}$ inches wide, measuring from center of eye. Hinge straps, made of steel, $\frac{5}{16}$ inch thick by $2\frac{1}{2}$ inches wide.

PRICE LIST

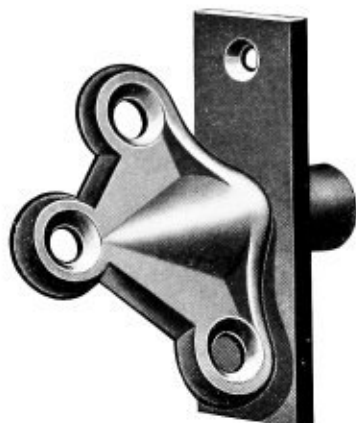
	WALL—12-INCH	18-INCH	24-INCH
No. 03-1 Hinges, 18 inches or under, (21 lbs.), per pair	\$3.00	\$3.20	\$3.40
No. 03-1 Hinges, 24 inches, (24 lbs.), per pair	3.20	3.40	3.60
No. 03-1 Hinges, 30 inches, (27 lbs.), per pair	3.50	3.70	3.90
No. 03-1 Hinges, 36 inches, (30 lbs.), per pair	3.80	4.00	4.20
No. 03-1 Hinges, 42 inches, (33 lbs.), per pair	4.10	4.30	4.50
No. 03-1 Hinges, 48 inches, (36 lbs.), per pair	4.40	4.60	4.80
No. 03-2 or No. 03-3 Hinges, 18 inches or under, (18—14 lbs.), per pair			\$2.30
No. 03-2 or No. 03-3 Hinges, 24 inches, (21—17 lbs.), per pair			2.40
No. 03-2 or No. 03-3 Hinges, 30 inches, (24—20 lbs.), per pair			2.70
No. 03-2 or No. 03-3 Hinges, 36 inches, (27—23 lbs.), per pair			3.00
No. 03-2 or No. 03-3 Hinges, 42 inches, (30—26 lbs.), per pair			3.30
No. 03-2 or No. 03-3 Hinges, 48 inches, (33—29 lbs.), per pair			3.60

Discount.....

No. 177—R-W Window Pivot



FOR TILTED
WINDOWS



APPLIED TO
WINDOW

Made of gray iron and steel. Black enamel finish. Packed one dozen pairs in paper box with screws. Weight, 12 pounds.

PRICE LIST

No. 177 Window Pivots, per dozen pairs.....\$3.60

Discount.....

No. 615—R-W Eagle Surface Floor Spring Hinge

FOR DOORS 1½ TO 1¾ INCHES THICK

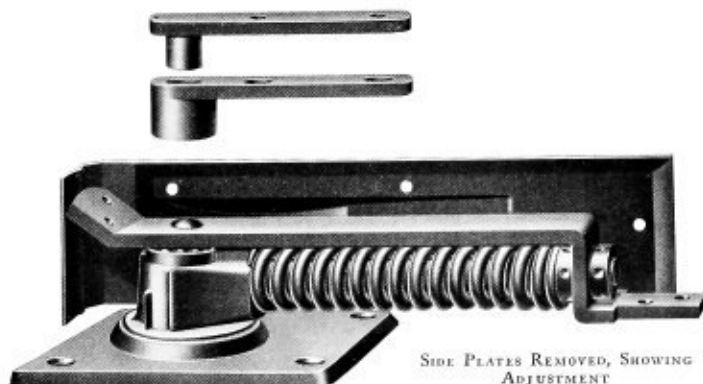
The tension of this hinge is strongest at the closing point, and decreases as the door opens.

The weight of the door rests on hardened ball bearings, which are located on top of hinge, being protected from water and dirt.

Adjustment provided for aligning the door.

Easily applied and adjusted by one.

Packed complete one set in a box, with screws and directions. Weight complete, 4 pounds.



SIDE PLATES REMOVED, SHOWING
ADJUSTMENT

PRICE LIST

No.	UNPOLISHED STEEL	
615- 7	Dull Japanned...	\$1.60
615- 027	Bronze Plated....	1.90
615- 037	Antique Copper..	1.90
615-0527	Lemon Brass.....	1.90
615-0537	Antique Brass....	1.90
615- 057	Imit. Bower Barff	1.90

No.	POLISHED STEEL	
615- 27	Bronze Plated....	\$2.20
615- 37	Antique Copper..	2.20
615- 47	Ant. Copper Sand	2.20
615-527	Lemon Brass.....	2.20
615-537	Antique Brass....	2.20
615-547	Ant. Brass Sand..	2.20

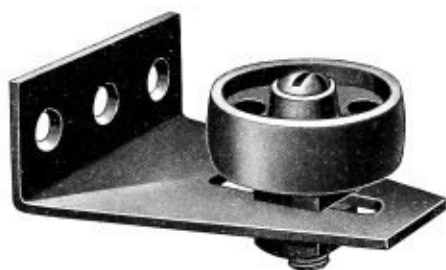
No.	BRASS METAL	
615-67	BRASS OR BRONZE...	\$3.60
615-77	Lemon Brass or Ant- ique Copper....	4.00
615-87	Antique Brass or Antique Copper, Sand Blast.....	4.00

Special finishes will be made to order.

Discount.....

No. 53 R-W Handy Steel Barn Door Stay Roller

(WILCOX No. 153)



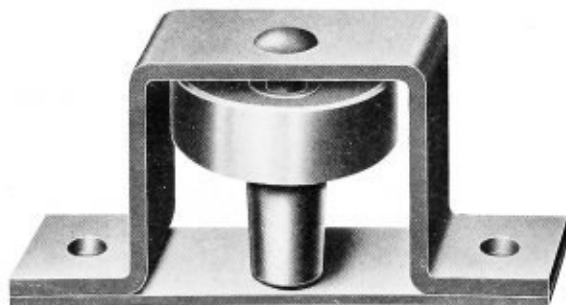
For inside and outside doors, from $1\frac{1}{2}$ to $2\frac{1}{2}$ inches thick. Two stays in one as illustrated. Adjustable and reversible. Wheels, gray iron, 2 inches diameter. Steel frame. Finish, japan. Packed in bulk. Weight per dozen, $9\frac{1}{4}$ pounds.

PRICE LIST

No. 53 Stay Roller, per dozen.....\$1.50

Discount.....

No. 54 R-W Favorite Steel Barn Door Stay Roller



Commonly used on box stalls and all inside sliding doors, where stay can be attached to floor. Wheel, gray iron, $2\frac{1}{2}$ inches diameter and covered with steel frame. Packed one dozen in metal-edge box. Weight, 27 pounds.

PRICE LIST

No. 54 Stay Roller, per dozen.....\$3.50

Discount.....



No. 55 R-W Lag Screw Barn Door Stay Rollers

(WILCOX No. 155)

FOR INSIDE DOORS ONLY

Wheels, gray iron, 2 inches diameter. Lag screw, $\frac{7}{16}$ -inch diameter by 6 inches long. Finish, japan. Packed in bulk. Weight, per dozen, 5 $\frac{3}{4}$ pounds.

PRICE LIST

No. 55 Stay Roller, per dozen.....\$1.00

Discount.....

No. 57 R-W Lag Screw Barn Door Stay Roller

(WILCOX No. 157)

FOR OUTSIDE DOORS ONLY



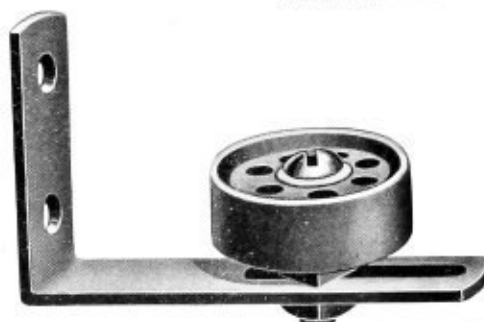
Wheels, gray iron, 2 inches diameter. Lag screw, $\frac{7}{16}$ -inch diameter by 8 inches long. Finish, japan. Packed in bulk. Weight per dozen, 6 $\frac{1}{2}$ pounds.

PRICE LIST

No. 57 Stay Roller, per dozen.....\$1.00

Discount.....

No. 58 R-W O. K. Steel Barn Door Stay Roller



Adjustable and reversible. Suitable for inside or outside doors, 1 $\frac{1}{2}$ to 3 inches thick. Wheels, gray iron, 2 inches diameter. Steel frame. Finish, japan. Packed in bulk. Weight per dozen, 11 $\frac{1}{2}$ pounds.

PRICE LIST

No. 58 Stay Roller, per dozen.....\$1.50

Discount.....



No. 59 R-W Steel Warehouse Door Stay Rollers

(WILCOX No. 81)
WITH BACK BRACE



Made extra high, to suit doors hung on inclined track. Suitable for use with warehouse and factory doors, also gates. Wheel, gray iron, $3\frac{1}{4}$ inches diameter. Steel frame, $2\frac{1}{4}$ inches wide, $\frac{3}{16}$ inch thick, $7\frac{1}{2}$ inches high. Finish, japan. Packed in bulk. Weight per dozen, 50 pounds.

PRICE LIST

No. 59 Stay Roller, per dozen.....\$8.00

Discount.....

No. 60 R-W Steel Warehouse Door Stay Rollers

(WILCOX No. 81 $\frac{1}{2}$)
WITHOUT BACK BRACE

This stay roller is the same as No. 59, illustrated above, with the exception that it is lower and back brace is removed. This type is frequently imbedded in concrete floors. Wheel, gray iron, $3\frac{1}{4}$ inches diameter. Steel frame, $2\frac{1}{4}$ inches wide, $\frac{3}{16}$ inch thick, $5\frac{3}{4}$ inches high. Finish, japan. Packed in bulk. Weight, per dozen, 33 pounds.

PRICE LIST

No. 60 Stay Roller, per dozen.....\$5.00

Discount.....



No. 66 R-W Barn Door Stay Roller

MADE IN TWO SIZES



For inside doors only. Can be fastened to concrete floors, with expansion bolts. Wheel, gray iron, No. 1 size, 2 inches diameter; No. 2 size, $3\frac{1}{4}$ inches diameter. Steel frame. Finish, japan. Packed in bulk. Weight, per dozen, No. 1 size, $6\frac{3}{4}$ pounds; No. 2 size, 21 pounds.

PRICE LIST

No. 66-1 Stay Roller, per dozen.....\$1.60
No. 66-2 Stay Roller, per dozen.....4.00

Discount.....



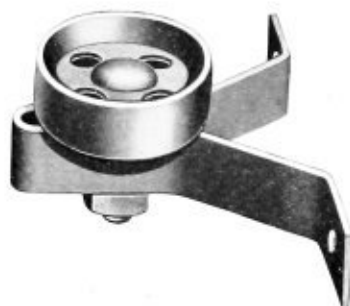
No. 67 R-W Adjustable Barn Door Stay Roller

Adjustable for doors up to $2\frac{1}{4}$ inches thick. Wheel, gray iron, 2 inches diameter. Steel frame. Finish, japan. Packed in bulk. Weight per dozen, 11 pounds.

PRICE LIST

No. 67 Stay Roller, per dozen.....\$1.60

Discount.....



No. 68 R-W Adjustable and Reversible Stay Roller

(WILCOX No. 154)

Adjustable for doors up to 3 inches thick. Wheel gray iron, $2\frac{1}{2}$ inches diameter. Frame, heavy steel, 2 inches wide, $7\frac{3}{4}$ inches high, $\frac{1}{4}$ inch thick. Stay roller wheel stands $4\frac{1}{2}$ inches high. Finish, japan. Packed in bulk. Weight per dozen, 39 pounds.

PRICE LIST

No. 68 Stay Roller, per dozen.....\$5.00

Discount.....



No. 151 R-W Safety Stay Roller

(WILCOX No. 151)

For inside doors only. Made of gray iron. As shown in illustration, wheel is protected and cannot be broken. Especially designed for use in small freight and warehouses. Wheel, gray iron, 2 inches diameter. Finish, japan. Packed one dozen in metal-edge box. Weight, $17\frac{1}{2}$ pounds.

PRICE LIST

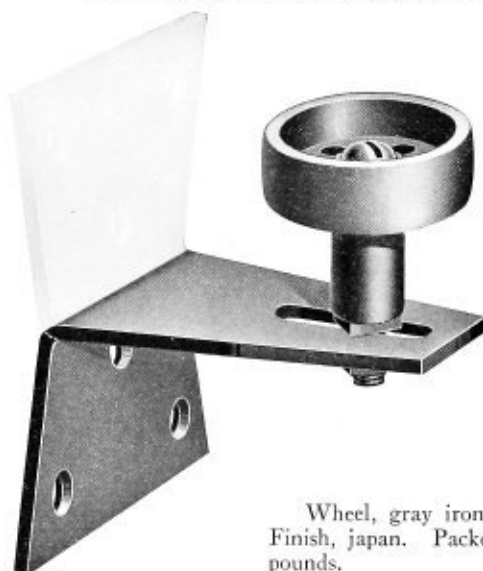
No. 151 Stay Roller, per dozen.....\$3.50

Discount.....





No. 153 R-W Steel Warehouse Stay Roller



Adjustable
and
reversible.

For inside or
outside doors
from 1½ to
3½ inches
thick.

Wheel, gray iron, 2½ inches diameter. Steel frame.
Finish, japan. Packed in bulk. Weight per dozen, 25
pounds.

PRICE LIST

No. 153 Stay Roller, per dozen.....\$2.40

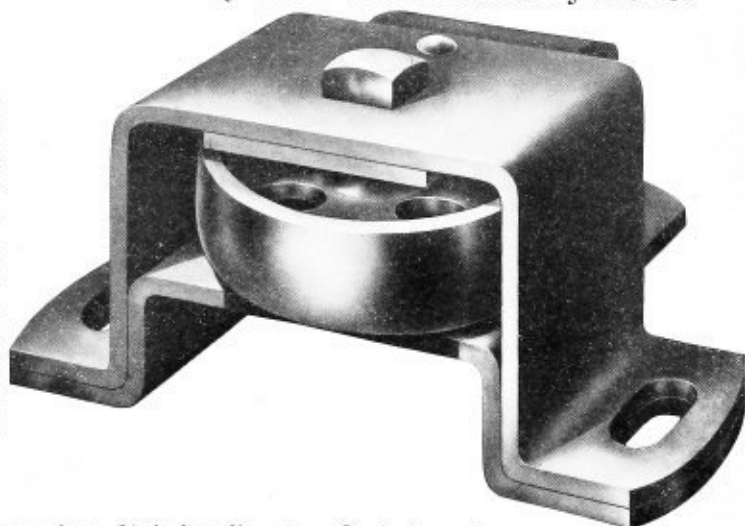
Discount.....

No. 154 R-W Heavy Steel Warehouse Stay Roller

Especially
designed
for use on
heavy
Warehouse
and Freight-
house doors.

Extra heavy
construction.

Wheel
protected on
all sides
except door
side with
heavy steel
frame.



Wheel, gray iron, 3½ inches diameter. Steel frame has screw holes slotted, providing a
means for adjustment. Finish, japan. Packed in bulk. Weight per dozen, 60 pounds.

PRICE LIST

No. 154 Stay Roller, per dozen.....\$14.40

Discount.....



No. 69 R-W Steel Bumper

(WILCOX No. W-69)



Made of steel, and suitable for any size door. Finish, japan. Packed in bulk. Weight per dozen, 13 pounds.

PRICE LIST

No. 69 Steel Bumper, per dozen.....\$2.00

Discount.....

No. 82 R-W Steel Binder

(WILCOX No. W-82)

MADE IN SEVEN SIZES



Made of steel, for seven thicknesses of doors. Finish, japan. Packed in bulk. Average weight per dozen, 20 pounds.

PRICE LIST

No. 82-1 Steel Binder for 1½-inch door, per dozen.....	\$2.70
No. 82-3 Steel Binder for 1¾-inch door, per dozen.....	2.70
No. 82-3 Steel Binder for 2 -inch door, per dozen.....	2.80
No. 82-4 Steel Binder for 2¼-inch door, per dozen.....	2.80
No. 82-5 Steel Binder for 2½-inch door, per dozen.....	2.90
No. 82-6 Steel Binder for 2¾-inch door, per dozen.....	2.90
No. 82-7 Steel Binder for 3 -inch door, per dozen.....	3.00

Discount.....



No. 88 R-W Door Binder and Stop



PATENTED

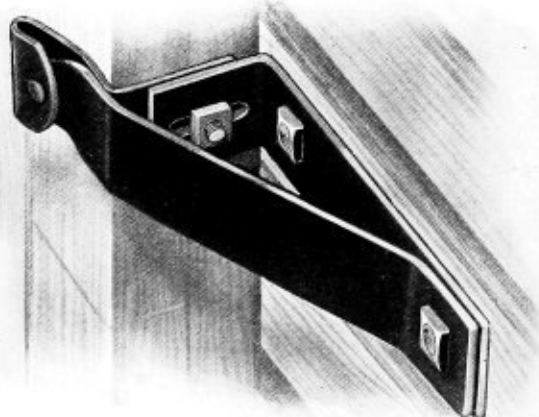
Made of two pieces steel. Brace is pivoted, allowing first lag screw to be inserted easily. Made for doors $1\frac{3}{4}$ inches thick. End is flared to readily receive the door. May be used at front or back of door. Should be attached with $\frac{7}{16}$ -inch lag screws or bolts. Finish, japan. Packed in bulk. Weight per dozen, $15\frac{1}{2}$ pounds.

PRICE LIST

No. 88 Door Binder and Stop, per dozen.....\$2.50

Discount.....

No. 89 R-W Adjustable Door Binder and Stop



PATENTED

Made of three pieces steel. Adjustable for doors $1\frac{3}{4}$ to 3 inches thick. Brace is pivoted, allowing first lag screw to be inserted easily. End is flared to readily receive the door. May be used at front or back of door. Should be attached with $\frac{7}{16}$ -inch lag screws or bolts. Finish, japan. Packed in bulk. Weight per dozen, 19 pounds.

PRICE LIST

No. 89 Adjustable Door Binder and Stop, per dozen.....\$4.00

Discount.....



RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



No. 72 R-W Whole Bar Staple

(Wilcox No. 161)

Made of steel for six sizes of bars.
Finish, japan. Packed in bulk.

PRICE LIST

Number	72-1	72-2	72-3	72-4	72-5	72-6
Size Bar	1 x 2 in.	1½ x 2½ in.	1½ x 3½ in.	2 x 4 in.	2 x 4 in.	2 x 4 in.
Size Steel	1½ x ½ in.	1½ x ½ in.	1½ x ¾ in.	1½ x ½ in.	1½ x ½ in.	1½ x ¾ in.
Weight, per dozen	3½ lbs.	5 lbs.	10 lbs.	13½ lbs.	18½ lbs.	23½ lbs.
Price, per dozen	\$1.00	\$1.20	\$1.40	\$1.80	\$2.00	\$2.40

Discount.....

No. 73 R-W Half Bar Staple

(Wilcox No. 163)

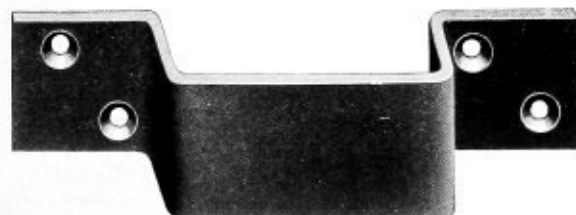
Made of steel for six sizes of bars. Finish,
japan. Packed in bulk.



PRICE LIST

Number	73-1	73-2	73-3	73-4	73-5	73-6
Size Bar	1 x 2 in.	1½ x 2½ in.	1½ x 3½ in.	2 x 4 in.	2 x 4 in.	2 x 4 in.
Size Steel	1½ x ½ in.	1½ x ½ in.	1½ x ¾ in.	1½ x ½ in.	1½ x ½ in.	1½ x ¾ in.
Weight, per dozen	3 lbs.	3½ lbs.	7 lbs.	10½ lbs.	14½ lbs.	19 lbs.
Price, per dozen	\$.90	\$1.10	\$1.30	\$1.60	\$1.90	\$2.30

Discount.....



No. 74 R-W Steel Stake Pocket

Made of steel for 1½ x 3-inch
stakes. Furnished in three sizes of
steel. Finish, japan. Packed in bulk.

PRICE LIST

Number	74-0	74-1	74-2
Size Steel	1½ x ¾ in.	2½ x ¾ in.	2½ x 1 in.
Weight, per 100	80 lbs.	125 lbs.	175 lbs.
Price, per 100	\$9.50	\$12.00	\$14.00

Discount.....



No. 77—R-W Wrought Steel Corner Irons

(WILCOX No. 165)

Made of wrought steel. Finish, natural; wired in dozen lots or packed one dozen in metal-edge box at slight increase in price.

PRICE LIST



Length of Sides Inches	Width Inches	Thickness Inches	Weight per Dozen Pounds	Price per Dozen	
				Wired	Boxed
1	3	$\frac{1}{8}$	$\frac{1}{8}$	\$.20	\$.23
1 $\frac{1}{2}$	3	$\frac{1}{8}$	$\frac{3}{8}$	.24	.27
2	3	$\frac{1}{8}$	1 $\frac{1}{4}$	.28	.31
2 $\frac{1}{2}$	3	$\frac{1}{8}$	2	.34	.37
3	3	$\frac{1}{8}$	2 $\frac{1}{2}$	.42	.45
3 $\frac{1}{2}$	3	$\frac{1}{8}$	3 $\frac{1}{2}$	.50	.54
4	3	$\frac{1}{8}$	4 $\frac{1}{2}$	.60	.64
5	3	$\frac{1}{8}$	5 $\frac{1}{2}$	.95	1.00
6	1 $\frac{1}{2}$	$\frac{1}{8}$	8 $\frac{1}{2}$	1.20	1.25
8	1 $\frac{1}{2}$	$\frac{1}{8}$	18	1.80	1.86

Discount.....

No. 78—R-W Wrought Steel Flat Corner Irons

(WILCOX No. 265)

Made of wrought steel. Finish, natural; wired in dozen lots or packed two dozen in metal-edge box at a slight increase in prices.

PRICE LIST

Length of Sides		1½-inch		2-inch		2½-inch		3-inch		3½-inch		4-inch		5-inch		6-inch	
Thickness		16 Gauge		16 Gauge		16 Gauge		14 Gauge		14 Gauge		14 Gauge		13 Gauge		13 Gauge	
Width	Price	Wired	Boxed	Wired	Boxed	Wired	Boxed	Wired	Boxed	Wired	Boxed	Wired	Boxed	Wired	Boxed	Wired	Boxed
½-in.	Per doz.	\$.11	\$.13	\$.12	\$.14	\$.13	\$.15	\$.14	\$.17	\$.15	\$.18	.	.	.	.	.	.
¾-in.	Per doz.	.	.	.	.	.15	.17	.16	.19	.17	.20	.	.	.	.	.	.
1-in.	Per doz.	.	.	.	.	.	.	.18	.21	.20	.23	\$.21	\$.24	.	.	.	.
1¼-in.	Per doz.	.	.	.	.	.	.	.	.	.22	.25	.24	.27	.	.	.	.
1½-in.	Per doz.	.	.	.	.	.	.	.	.	.	.	.28	.32	\$.32	\$.36	\$.34	\$.38
1-in.	Per doz.	.	.	.	.	.	.	.	.	.	.	.	.	.32	.36	.38	.42

Discount.....

No. 79 R-W Wrought Steel Mending Plates

(WILCOX No. 167)

Made of wrought steel. Finish, natural; wired in dozen lots or packed two dozen in metal-edge box at a slight increase in price.

PRICE LIST

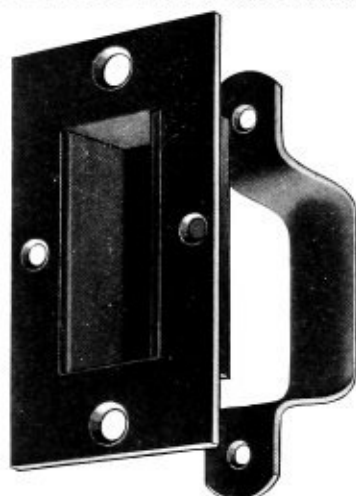
Length, Inches	Width, Inches	Thickness, Inches	Weight per Dozen Pounds	Price per Dozen	
				Wired	Boxed
2	2	$\frac{1}{8}$	$\frac{5}{8}$	\$.20	\$.23
2 $\frac{1}{2}$	2	$\frac{1}{8}$	$\frac{11}{8}$	.23	.26
3	2	$\frac{1}{8}$	$\frac{13}{8}$	.25	.28
3 $\frac{1}{2}$	2	$\frac{1}{8}$	1	.28	.31
4	2	$\frac{1}{8}$	1 $\frac{1}{2}$	.30	.33
5	2	$\frac{1}{8}$	1 $\frac{3}{4}$	.35	.38
6	1 $\frac{1}{2}$	$\frac{1}{8}$	2	.40	.44
8	1 $\frac{1}{2}$	$\frac{1}{8}$	5	.50	.54

Discount.....

NOTE—Unless otherwise specified, Nos. 77, 78 and 79 will be sent wired in dozen lots.



Nos. 70 and 71 R-W Steel Flush Pulls and Steel Handles



Made of steel. Finish, japan. Packed in bulk. The No. 2 size handles and pulls are the same as furnished with fire door fixtures.

PRICE LIST

No. 70-1 Flush Pull (9½ lbs.), per dozen.....	\$2.00
No. 70-2 Flush Pull (13 lbs.), per dozen.....	3.00
No. 71-1 Handle (3½ lbs.), per dozen.....	1.00
No. 71-2 Handle (5 lbs.), per dozen.....	1.80

Nos. 282 and 382 R-W Adjustable Malleable D's

Discount.....

FOR SHOVELS, SPADING AND MANURE FORK HANDLES
HANDLED ICE SHAVES, ETC.



PATENTED



Overcomes the old faulty ones that are always loose and cannot be tightened; have 3-inch strap ferrule. Adjustable to any size handle. No shoulders to trim down or any dressing to do. Can be kept tight, though wood shrinks. Is securely fastened on by two rivets. Easily removed, no burning or boring to do.

No. 282 has wood handle. No. 382 is all malleable.

Finish, agricultural blue. Packed ½ dozen in metal-edge box. Weight per dozen, No. 282, 9¼ pounds; No. 382, 13½ pounds.

PRICE LIST

No. 282 Malleable D, per dozen.....	\$2.00
No. 382 All Malleable D, per dozen.....	2.20

Discount.....

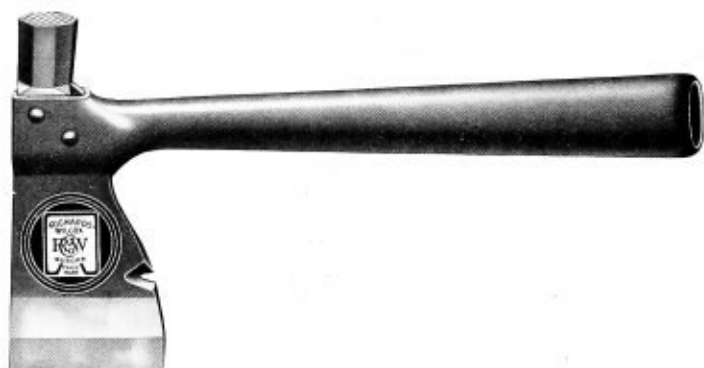


RICHARDS-WILCOX MFG. CO., AURORA, ILLINOIS, U. S. A.



No. 91 R-W Packers Special Steel Hatchet

PLAIN OCTAGON HEAD



Built especially for packer's use. Solid octagon head with smooth face. Half blade, made from high carbon steel, carefully tempered in oil, and carries a fine cutting edge. Nail pull in side milled to edge. Hollow steel handle, heavily reinforced. All riveting is done under heavy pressure, and it is impossible for head or handle to work loose. Baked black enamel finish, polished blade. Packed one-half dozen in metal-edge box. Weight, per dozen, 18 pounds.

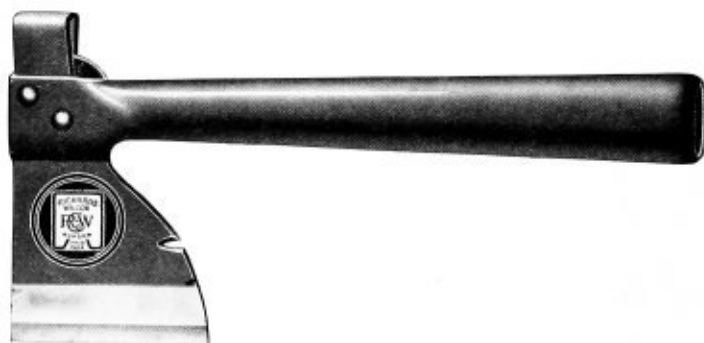
PRICE LIST

No. 91 Hatchet, per dozen.....\$5.50

Discount.....

No. 92 R-W Jim Dandy Steel Hatchet

PLAIN HEAD



Built especially to meet the demand for half-blade hatchets, for general use. An ideal household tool. Special design steel head with smooth face. Half blade, made from high carbon steel, carefully tempered in oil and carries a fine cutting edge. Nail pull in side. Hollow steel handle, heavily reinforced. All riveting is done under heavy pressure, and it is impossible for head or handle to work loose. Baked black enamel finish, polished blade. Packed one-half dozen in metal-edge box. Weight per dozen, 17 pounds.

PRICE LIST

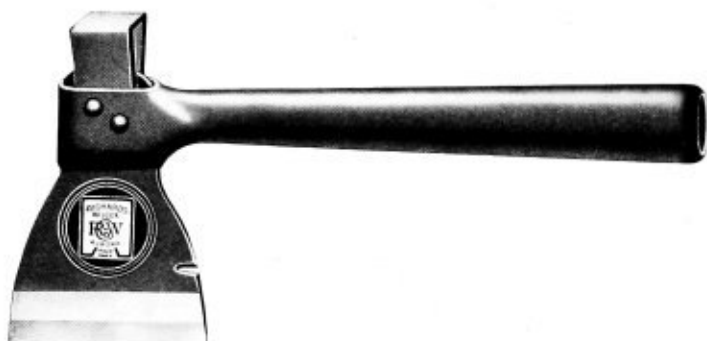
No. 92 Hatchet, per dozen.....\$4.20

Discount.....



No. 90 R-W Household Steel Hatchet

PLAIN HEAD



Built especially to meet the demand for a full blade moderate price household hatchet. Special design steel head with smooth face. Full blade, made from high carbon steel, carefully tempered in oil, and carries a fine cutting edge. Nail pull in side. Hollow steel handle, heavily reinforced. All riveting is done under heavy pressure, and it is impossible for head or handle to work loose. Baked black enamel finish, polished blade. Packed one-half dozen in metal-edge box. Weight per dozen, 17½ pounds.

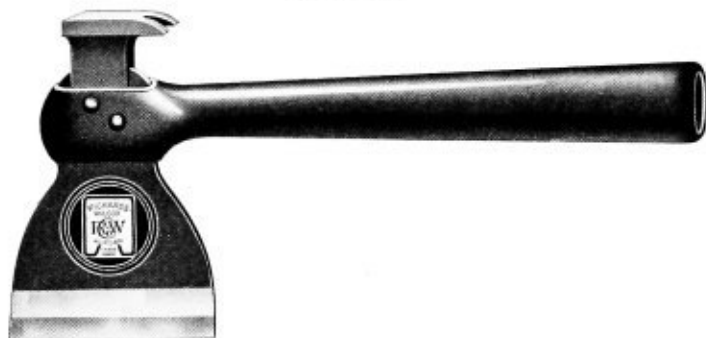
PRICE LIST

No. 90 Hatchet, per dozen.....\$4.00

Discount.....

No. 93 R-W All-Purpose Steel Hatchet

CLAW HEAD



An all-purpose household tool. Solid claw head with smooth face. Full blade, made from high carbon steel, carefully tempered in oil, and carries a fine cutting edge. Hollow steel handle, heavily reinforced. All riveting is done under heavy pressure, and it is impossible for head or handle to work loose. Baked black enamel finish, polished blade. Packed one-half dozen in metal-edge box. Weight per dozen, 20 pounds.

PRICE LIST

No. 93 Hatchet, per dozen.....\$6.00

Discount.....



No. 110 R-W Steel Foot Scraper



Made of two pieces of steel, securely riveted together. Can be attached with screws or bolts to sidewalk or porch steps. Scraper, $5\frac{3}{4}$ inches wide, $2\frac{1}{2}$ inches high. Finish, japan. Packed one dozen in metal-edge box. Weight per dozen, 8 pounds.

PRICE LIST

No. 110 Foot Scraper, per dozen.....\$1.50

Discount.....

No. 111 R-W Steel Foot Scraper



Designed especially to meet the demand for a low price foot-scraper. Made of one piece of steel. Can be attached with screws or bolts to sidewalk or porch steps. Scraper, $5\frac{3}{4}$ inches long, 2 inches high. Finish, japan. Packed in bulk. Weight per dozen, 4 pounds.

PRICE LIST

No. 111 Foot Scraper, per dozen.....\$1.20

Discount.....

No. 195 R-W Steel Foot Scraper

(WILCOX No. 195)



Made entirely of steel and in one piece. Strong, rigid and durable. Can be attached with screws or bolts to sidewalk or porch steps. Scraper, 6 inches wide, 2 inches high. Finish, japan. Packed one dozen in metal-edge box. Weight, per dozen, 5 pounds.

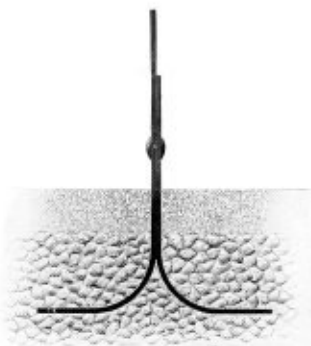
PRICE LIST

No. 195 Foot Scraper, per dozen.....\$1.30

Discount.....

No. 210 R-W Steel Foot Scraper

FOR CONCRETE WALKS OR STEPS



SHOWING FOOT SCRAPER IMBEDDED

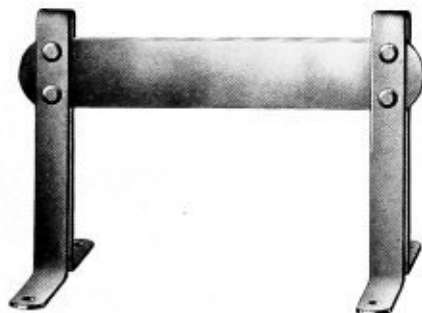
Designed especially to meet the demand for foot-scraper that can be imbedded in concrete. Made of two pieces of steel, securely riveted together. Strong and durable. Holes in scraper allow for binding contact of concrete while setting. Scraper, $5\frac{1}{8}$ inches wide, $4\frac{3}{4}$ inches high. Finish, japan. Packed one dozen in metal-edge box. Weight per dozen, 11 pounds.

PRICE LIST

No. 210 Foot Scraper, per dozen.....\$2.00

Discount.....

No. 211 R-W Steel Foot Scraper



Designed especially for public building. Made of three pieces of steel, securely riveted together. Scraper bar made from $\frac{3}{8}$ x $1\frac{1}{2}$ -inch steel, uprights from $\frac{3}{8}$ x $\frac{3}{4}$ -inch steel. Intended to be imbedded in cement, but can be bolted to sidewalk or porch steps, if desired. Scraper, $8\frac{1}{2}$ inches long, $5\frac{1}{2}$ inches high. Finish, japan. Packed in bulk. Weight per dozen, 21 pounds.

PRICE LIST

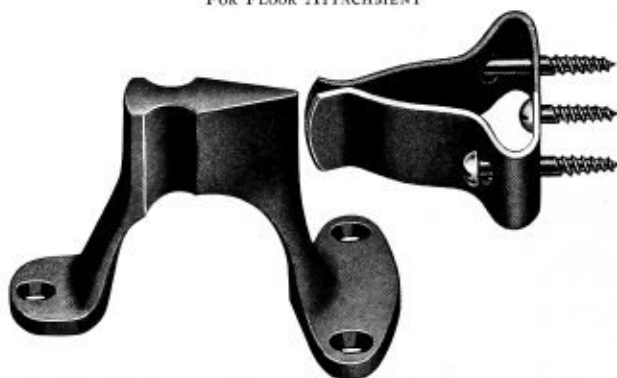
No. 211 Foot Scraper, per dozen.....\$4.80

Discount.....



No. 118 R-W Sure Grip Door Holder

(WILCOX No. 137)
FOR FLOOR ATTACHMENT



Holders made of malleable iron and door clips of spring bronze metal. Finishes as stated in price list below. Packed, one dozen in metal-edge box, complete with all screws finished to match holder. Weight per dozen, 4 pounds.

PRICE LIST

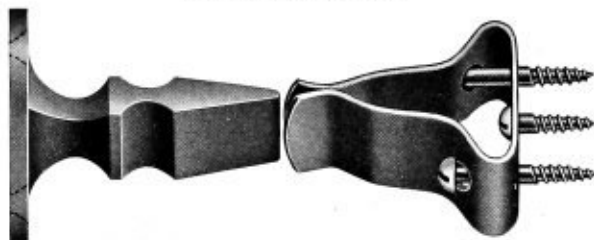
No. 118 Door Holder, japanned, per dozen.....	\$3.00
No. 118 Door Holder, bronze plated, per dozen.....	4.70
No. 118 Door Holder, antique copper plated, per dozen.....	4.70
No. 118 Door Holder, solid brass metal, bright, per dozen.....	7.00
No. 118 Door Holder, solid brass metal, dull, per dozen.....	7.00

Discount.....

NOTE—Above finishes carried in stock. Special finishes made to order. Prices quoted on application.

No. 119 R-W Sure Grip Door Holders

(WILCOX No. 135)
FOR WALL ATTACHMENT



Holders made of malleable iron and door clips of spring bronze metal. Finishes as stated in price list below. Packed, one dozen in metal-edge box, complete with all screws finished to match holder. Weight, per dozen, 3 $\frac{3}{4}$ pounds.

PRICE LIST

No. 119 Door Holder, japanned, per dozen.....	\$3.00
No. 119 Door Holder, bronze plated, per dozen.....	4.70
No. 119 Door Holder, antique copper plated, per dozen.....	4.70
No. 119 Door Holder, solid brass metal, bright, per dozen.....	7.00
No. 119 Door Holder, solid brass metal, dull, per dozen.....	7.00

Discount.....

NOTE—Above finishes carried in stock. Special finishes made to order. Prices quoted on application.



No. 317 R-W Everready Door Holder

This is a new, small, compact door holder, which, on account of its neatness, is recommended for residences, apartments or any other place where neatness is desired.

It is a neat, strong and durable device that is operated by foot pressure.

It can not injure any kind of floor or carpet, nor has it any projections to catch on garments.

Will reach $1\frac{1}{2}$ inches from door to floor. Finishes, as stated in price list below. Packed, one-half dozen in metal-edge box, complete with all screws finished to match holder. Weight, per dozen, $9\frac{1}{2}$ pounds.

PRICE LIST

No.	IRON, UNPOLISHED	PER DOZEN
317-1	Iron, unpolished, dull japanned.....	\$6.70
317-031	Iron, unpolished, antique copper plated.....	7.90
317-0521	Iron, unpolished, dull brass plated.....	7.70
317-0531	Iron, unpolished, antique brass plated.....	7.70
IRON, POLISHED		
317-21	Iron, polished, bronze plated.....	\$9.00
317-31	Iron, polished, antique copper plated.....	9.00
317-41	Iron, polished, antique copper plated, sand blast.....	9.00
317-51	Iron, polished, Bauer Barff.....	9.00
317-521	Iron, polished, dull brass plated.....	9.00
317-531	Iron, polished, antique brass plated.....	9.00
317-541	Iron, polished, antique brass plated, sand blast.....	9.00
BRONZE OR BRASS METAL, POLISHED		
317-61	Bronze metal, polished.....	\$12.30
317-71	Bronze metal, polished, antique copper or dull brass plated.....	13.50
317-81	Bronze metal, polished, antique copper plated, sand blast.....	13.50
Extra rubbers for any of the above, per dozen.....		3.00

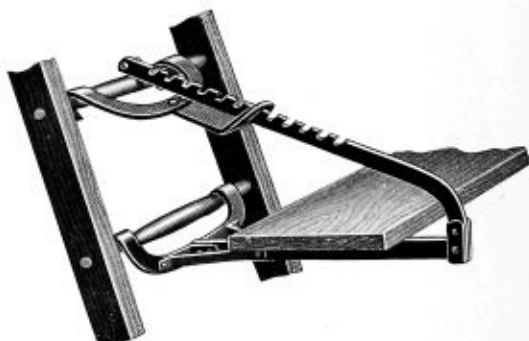
Discount.....

NOTE—Finishes other than above, made up special to order. Prices quoted on application.



No. 138 R-W Economy Ladder Jack and Scaffold Support

This jack can be used inside or outside of any ladder, quickly adjusted to any pitch of ladder. With a pair of these jacks a strong and firm scaffold can be quickly arranged at any height and as close to building as desired. Easily applied, easily raised or lowered. A very practical device, and every carpenter, painter, trimmer and farmer ought to have one. Finish, japan. Packed in bulk. Weight, per pair, 33 pounds.



PRICE LIST

No. 138 Ladder Jacks, per pair.....\$3.60

Discount.....



No. 163 R-W Post Hole Auger

MADE IN THREE SIZES

Genuine Iwan Pattern Improved. Non-adjustable type. Improvement is at the point. They are LOCK-HINGE, making auger stronger at the point, yet has all the cutting edges. No dead center. Blades are made of high-carbon shovel steel, each formed with two cutting edges and notched at the point, so forming the lock-hinge and preventing same being pulled apart. At the top they are riveted to strong malleable arch into which is screwed the gas-pipe connecting with the wood handle at top, making total length four feet. Where deeper holes are required, longer pipe can easily be attached. Steel parts finished in red and blue enamel; wood handle, natural. Tied three in a bundle.

PRICE LIST

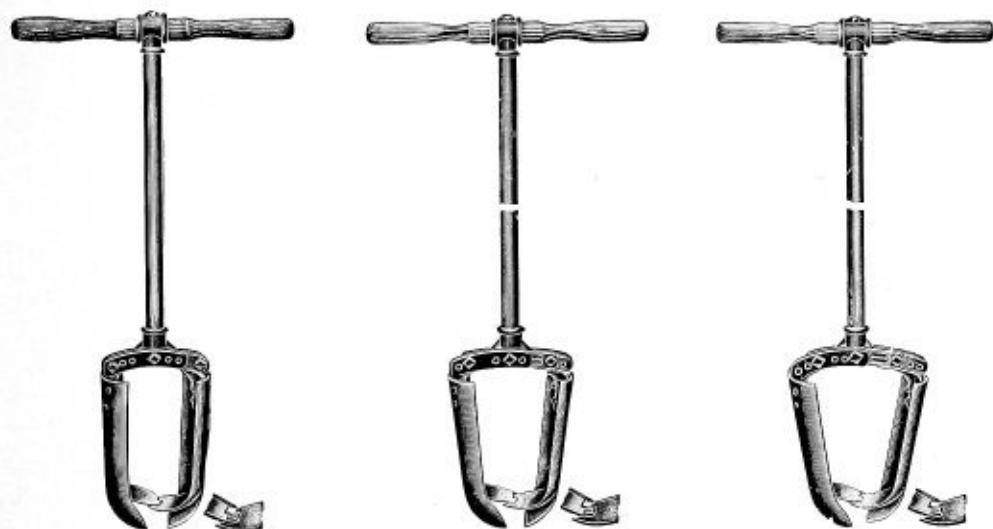
NUMBER	Size, Inches	Weight per Dozen Pounds	Price per Dozen
163-1	6	100	\$33.60
163-2	8	125	36.00
163-3	10	150	43.20

Discount.....



No. 263 R-W Adjustable Post Hole Auger

MADE IN THREE SIZES AND ADJUSTABLE



Three sizes of holes can be bored with the No. 263 R-W Adjustable Post Hole Augurs. These three illustrations show how augur can be adjusted to make three sizes, simply by loosening and re-adjusting bolts in castings.

Blades and form are the standard Iwan pattern with the adjustable feature added.

Blades are made of high-carbon shovel steel, each formed with two cutting edges and notched at the point, so forming the lock hinge and preventing same being pulled apart. At the top they are riveted to a strong malleable arch into which is screwed the gas pipe connecting with the wood handle at top, making total length 4 feet. Where deeper holes are required, longer pipe can easily be attached. Steel parts finished in red and blue enamel; wood handle, natural. Tied three in a bundle.

PRICE LIST

NUMBER	Size, Inches	Weight per Dozen Pounds	Price per Dozen
263-1	5 and 6	100	\$33.60
263-2	6, 7 and 8	125	36.00
263-3	8, 9 and 10	150	38.40

Discount.....



No. 165 R-W Wizard Adjustable Ratchet Wrench



PATENTED. LENGTH, 8 INCHES.
JAWS OPEN 1 INCH.



The Wizard is the first and only practical adjustable ratchet wrench ever produced and meets a long felt want for a handy and quick acting tool in this line. Perfectly adjustable, with right and left action. The most novel and useful wrench ever invented. A marvel of beauty, strength and utility. Combining all the good points of the monkey wrench in addition to the ratchet feature.

Especially adapted for use in close quarters where no other wrench can be used. A perfect tool for automobiles, engines and machinery of all kinds; especially convenient for work around pulleys. When once applied to the nut the wrench need not be lifted until the nut is turned as much as desired, and the wrench can be operated with one hand. Sells at sight—every machinist, mechanic and farmer will buy it because it saves time, and time is money. Our guarantee goes with every wrench. Mottled finish. Packed one in a box. Weight, $1\frac{1}{4}$ pounds.

PRICE LIST

No. 165 Wrench, per dozen.....\$24.00

No. 168

Discount.....

R-W Elgin Adjustable Wrench



The R-W Elgin Wrench is a high-grade tool. Made of wrought steel. Hardened jaws. Length, 7 inches, for $\frac{1}{4}$ to $\frac{3}{4}$ -inch pipe, and $\frac{1}{4}$ to $\frac{3}{4}$ -inch round bars. The upper part of wrench is adjustable and is held open by spring. It can be closed by the thumb nut, until both jaws meet, giving the tool a wide range of work. The extra jaws are very easily adjusted and they renew the wrench indefinitely. Finish, nickel-plated and highly polished. Packed, one dozen in metal-die box. Weight per dozen, $7\frac{1}{2}$ pounds.

PRICE LIST

No. 168 Wrench, per dozen.....\$12.00

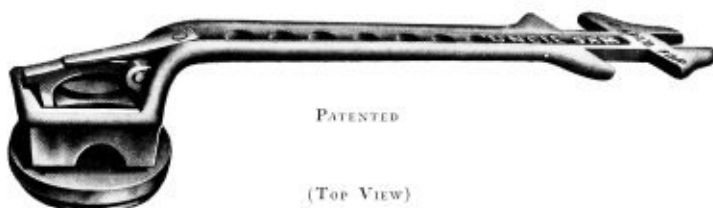
Extra jaws, per dozen..... 3.00

Discount.....



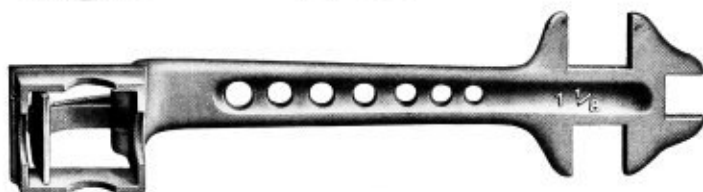
No. 169 R-W Nut Grip Wrench

FOR VEHICLES
MADE IN THREE SIZES



PATENTED

(TOP VIEW)



(BOTTOM VIEW)

The handiest, most popular vehicle wrench made. Absolutely no possibility of the wrench flying off or the nut dropping out, as the spring controlled tongue grips the nut tightly, securely holding it. Unbreakable. Made of malleable iron and in three sizes, for $\frac{3}{4}$ -inch, 1-inch and $1\frac{1}{8}$ -inch nuts. Finish, japan. Packed, one dozen in metal-edge box. Average weight per dozen, $6\frac{1}{2}$ pounds.

PRICE LIST

No. 169 Wrench, any size, per dozen.....\$2.00

Discount.....



No. 190 R-W Sure Grip Fruit Jar Wrench

Most serviceable Fruit Jar Wrench on the market. Made entirely of steel. Finish, plain steel, japanned or galvanized. Packed one dozen in metal-edge carton. Weight, per dozen, 4 pounds.

PRICE LIST

No. 190-1 Wrench, plain steel, per dozen.....\$1.60

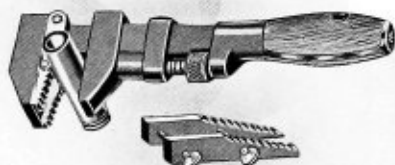
No. 190-2 Wrench, japanned, per dozen.....1.60

No. 190-3 Wrench, galvanized, per dozen.....2.00

Discount.....

No. 217 R-W Yankee Jaws

(WILCOX No. 217-1 AND 3)
MADE IN TWO SIZES



Made entirely of tool steel and hardened. Applied to any monkey-wrench, converting same to perfect pipe wrench. Every set guaranteed. Polished finish. Packed, one dozen sets in metal-edge carton. Weight per dozen, No. 1 size, 6 pounds; No. 2 size, 5 pounds.

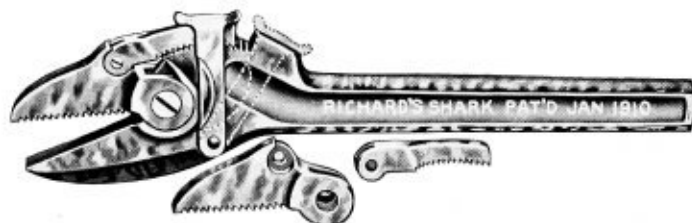
PRICE LIST

No. 217-1 Yankee Jaws for wrenches from 16 to 26 inches, per dozen sets.....	\$5.00
No. 217-2 Yankee Jaws for wrenches up to 16 inches, per dozen sets.....	4.00

Discount.....

No. 265 R-W Shark Adjustable Wrench

MADE IN TWO SIZES



A quick action adjustable general purpose alligator wrench. Made of best quality drop forgings throughout. Makes a splendid pipe wrench and is equally good for bolts or nuts, either square or hexagon. With this wrench corners and angles are easily accessible. Good for any work—anywhere—any time. The "Shark" is an extra strong wrench with a "bull dog grip" that never slips or lets go. Built for service—built to last. Extra jaws renew the life of the wrench indefinitely. Jaws made of high-grade carbon steel, oil tempered. Surface of wrench polished and hardened. Mottled finish. Guarantee—any wrench found defective on account of poor workmanship or material will be replaced free of charge. Made in two sizes—No. 1, 8-inch, takes nut or pipe $\frac{1}{2}$ -inch to $\frac{3}{4}$ -inch; No. 2, 12-inch, takes nut or pipe $\frac{1}{2}$ to $1\frac{1}{2}$ inches. Packed one-half dozen in metal-edge box. Weight, per dozen, No. 1 size, $5\frac{1}{2}$ pounds; No. 2 size, 7 pounds.

PRICE LIST

No. 265-1 Wrench, per dozen.....	\$14.40
No. 265-2 Wrench, per dozen.....	19.20
Extra Jaws, per dozen.....	3.60

Discount.....



No. 173 and 174—R-W Halter Lead with One Snap



Made of Sisal and Manila rope. Snap attached at one end and steel ferrule at other end. Packed one dozen in bundle. Weight per dozen, 9 pounds.

PRICE LIST

No. 173 Halter Lead, $\frac{1}{2}$ -inch Sisal, 6 ft. 6 in., per dozen...\$2.00

No. 174 Halter Lead, $\frac{1}{2}$ -inch Manila, 6 ft. 6 in., per dozen... 2.50

NOTE—Always specify by number. *Discount*.....

No. 183 and 184—R-W Halter Lead with One Ring

Made of Sisal and Manila rope. Ring attached to one end and steel ferrule to other end. Packed one dozen in bundle. Weight per dozen, 8 pounds.

PRICE LIST

No. 183 Halter Lead, $\frac{1}{2}$ -inch Sisal, 6 ft. 6 in., per dozen...\$1.70

No. 184 Halter Lead, $\frac{1}{2}$ -inch Manila, 6 ft. 6 in., per dozen... 2.20

NOTE—Always specify by number. *Discount*.....



No. 176—R-W Neverslip Hammock Anchor Ropes

Made of Sisal and Manila rope, in two sizes. Hammock ropes have a Neverslip Buckle at one end and loop securely fastened with steel ferrule at other end. Packed, one dozen in bundle. Average weight per dozen, 6 pounds.

NOTE—Always specify by number.

PRICE LIST

No. 176-1 Hammock Ropes, $\frac{3}{4}$ -in. Sisal rope, 6 ft., per doz....\$1.25

No. 176-2 Hammock Ropes, $\frac{3}{4}$ -in. Manila rope, 6 ft., per doz.. 1.50

No. 176-3 Hammock Ropes, $\frac{1}{2}$ -in. Manila rope, 7 ft., per doz.. 1.75

No. 176-4 Hammock Ropes, $\frac{1}{2}$ -in. Manila rope, 7 ft., per doz.. 1.85

Discount.....

Prices on Neverslip Buckles only quoted on application.



No. 178—R-W Neverslip Cattle Ties

Made of Sisal and Manila rope, with Neverslip Buckle at one end and steel ferrule at other end. Packed one dozen in bundle. Weight per dozen, 10 pounds.

PRICE LIST

No. 178-1 Cattle Ties, $\frac{1}{2}$ -in. Sisal rope, 8 $\frac{1}{2}$ ft., per doz....\$1.75

No. 178-2 Cattle Ties, $\frac{1}{2}$ -in. Manila rope, 8 $\frac{1}{2}$ ft., per doz... 3.00

NOTE—Always specify by number. *Discount*.....



No. 179—R-W Neverslip Horse Ties

Horse Ties are the same as Cattle Ties illustrated above. Made of Sisal and Manila rope, with Neverslip Buckle at one end and steel ferrule at other end. Packed one dozen in bundle. Weight per dozen, sizes No. 1 and 2, 11 pounds; sizes No. 3 and 4, 18 pounds.

NOTE—Always specify by number.

PRICE LIST

No. 179-1 Horse Ties, $\frac{1}{2}$ -inch Sisal rope, 10 feet, per dozen.....\$2.00

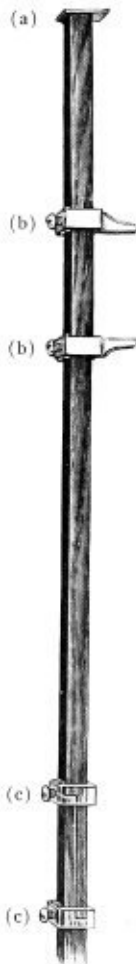
No. 179-2 Horse Ties, $\frac{1}{2}$ -inch Manila rope, 10 feet, per dozen..... 3.75

No. 179-3 Horse Ties, $\frac{3}{4}$ -inch Sisal rope, 10 feet, per dozen..... 4.80

No. 179-4 Horse Ties, $\frac{3}{4}$ -inch Manila rope, 10 feet, per dozen..... 8.40

Discount.....

No. 192 R-W Carpenter's Hinge Gauge



PATENTED



THE NEW WAY



THE OLD WAY

The R-W Carpenter's Hinge Gauge is easily adjusted to fit the smallest as well as the largest hinges, and equally adapted for use on the smallest as well as the largest doors.

For hanging blinds, casement windows and screen doors.

A tram-rod for laying out all kinds of circle work, such as centers for brick work, or any purpose where circles or segments must be laid out with accuracy.

To accurately transfer several marks from one piece to others.

Convenient tool for locating lock mortises.

(A) End Gauge Plate—Allows for proper top clearance of door.

(B) Gauge Points—Adjustable on bar for small and large hinges. Hinge should fit tightly between points.

(C) Clamps—Two clamps hold sections securely together.

Made in three sections from solid oak. Each section 29½ inches long. Clamps made of malleable iron and solid brass. Finish, oak, waxed. Metal parts, malleable iron, galvanized, brass, natural. Full instructions with each Hinge Gauge. Packed in bulk. Weight per dozen, 21 pounds.

PRICE LIST

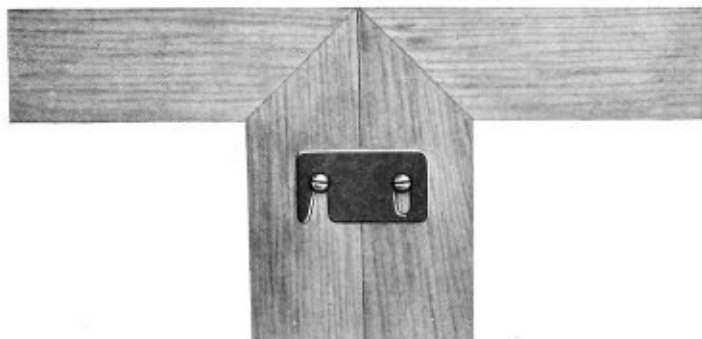
No. 192-1 Hinge Gauge, galvanized metal parts, per dozen.....	\$24.00
No. 192-2 Hinge Gauge, solid brass metal parts, per dozen.....	30.00

NOTE—Always specify by number.

Discount.....



No. 193 R-W Connecting Plates



These plates are especially adapted for coupling screens, sash, partitions, etc., holding them securely in position at joints. Note slots are tapered, which allows for drawing sections tight before screws are locked.

To disconnect, it is necessary to loosen only one screw and plates can be left attached to section.

Used to join screen sections together, porch screens, summer cottages, sleeping porches, etc.

Size, $1\frac{1}{4}$ inches by $2\frac{1}{4}$ inches. Finish, black enamel.

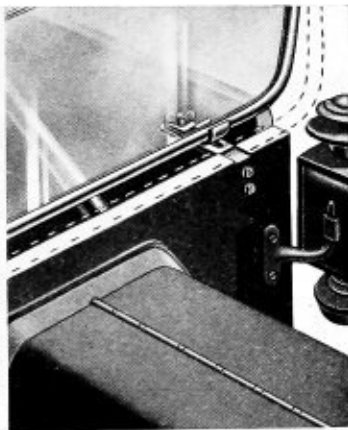
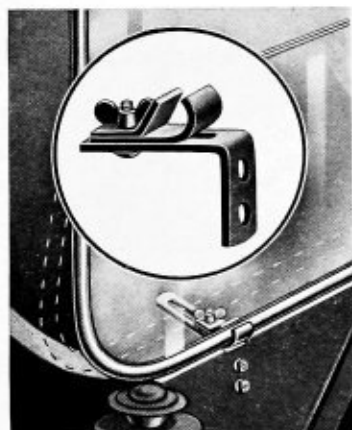
Packed one gross in carton with screws.

Weight per gross, $6\frac{3}{4}$ pounds.

PRICE LIST

No. 193 Connecting Plates, per gross.....\$2.00

Discount.....



No. 197 R-W Wind-Shield Ventilator

Designed to meet the demand for moderate priced wind-shield ventilators for Ford cars. The object of the device is to throw the wind-shield back about 2 inches, thereby forcing a strong draft around the floor of the front compartment. The cut shows shield open and closed. The ventilators hold the shield solid in either the open or closed positions. Ventilators are adjustable, allowing wind-shield to be open as much as desired up to 2 inches. Wind-shield cannot rattle after same is locked in position. Ventilators also hold the shield to the dash and prevent rain from beating in when closed.

Can be attached in fifteen minutes' time without drilling holes or doing any machine work whatever, as they fasten to the dash in place of the clips now holding the wind-shield.

Made entirely of steel. Finish, black enamel. Packed one pair in metal-edge box. Weight per pair, $\frac{3}{8}$ pound.

PRICE LIST

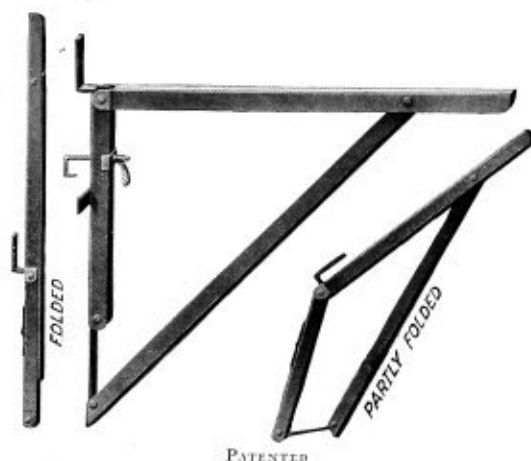
No. 197 Adjustable Wind Shield Ventilators, per pair.....\$.80

Discount.....



No. 231 R-W Steel Folding Builders Bracket

MADE IN TWO SIZES



STRONG, CONVENIENT AND DURABLE—CAN BE FOLDED COMPACTLY

Provided with hook and tail screw for fastening bracket in studding, assuring positive safety. Sway brace prevents swinging motion of bracket when in use. Convenient for handling and requires small storage space. The strongest bracket made and the most easily applied. These brackets cost no more than wood brackets and will last a lifetime. Save their cost on any job requiring two dozen or more brackets. Contractors are enthusiastic about them.

Made entirely of steel in two sizes—No. 231-1, 3 feet long; No. 231-2, 4 feet long. All hinged joints securely riveted. Finish, japan. Packed, one dozen in wood crate. Weight per dozen, No. 1 size, 200 pounds; No. 2 size, 230 pounds.

PRICE LIST

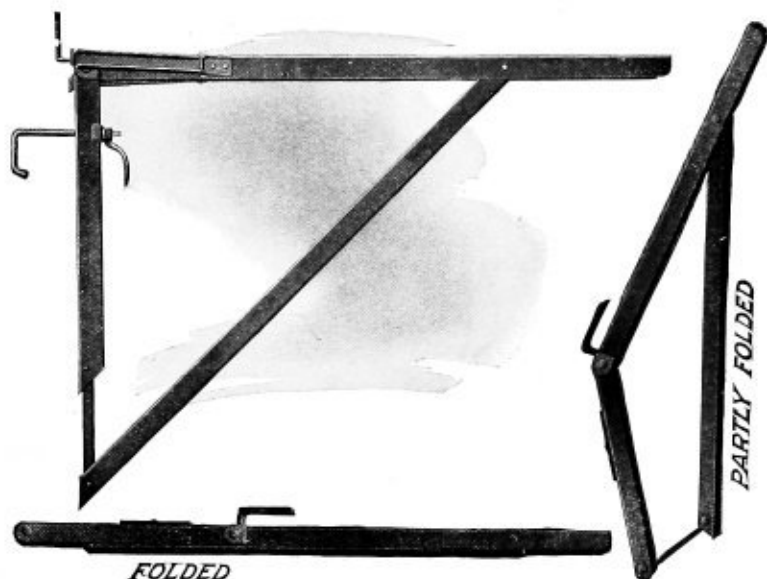
No. 231-1 Builders Brackets, per dozen.....	\$24.00
No. 231-2 Builders Brackets, per dozen.....	30.00

Discount.....



No. 261 R-W Steel Folding Builders Bracket

MADE IN THREE SIZES



PATENTED

STRONG, CONVENIENT AND DURABLE—CAN BE FOLDED COMPACTLY

Above Folding Builder's Brackets are of same construction as No. 231, shown on opposite page, excepting that sway braces are riveted to side of top bar. This makes the bracket absolutely rigid and prevents any swinging motion of same when in use. Provided with hook and tail screw for fastening bracket to studding, assuring positive safety.

Made entirely of steel, in three sizes. No. 261-1, 3 feet long; No. 261-2, 4 feet long; No. 261-3, 5 feet long. All hinged joints securely riveted. Finish, japan. Packed one-half dozen in wood crate. Weight per dozen, No. 1 size, 240 pounds; No. 2 size, 280 pounds; No. 3 size, 350 pounds.

PRICE LIST

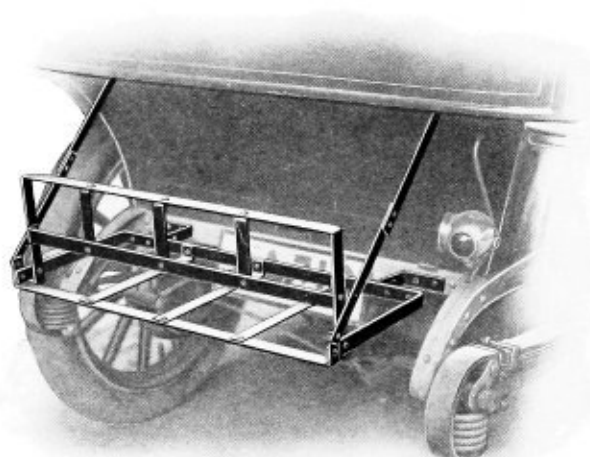
No. 261-1 Builders Brackets, per dozen.....	\$28.00
No. 261-2 Builders Brackets, per dozen.....	34.00
No. 261-3 Builders Brackets, per dozen.....	40.00

Discount.....



No. 244 R-W Steel Folding Luggage Carrier

MADE IN THREE SIZES



Easily attached to any car. Illustration above shows carrier folded to receive suit-case or small packages. To hold a trunk, carrier is opened to flat position. Made entirely of steel in three sizes, No. 244-1 for 28-inch trunk; No. 244-2 for 30-inch trunk; No. 244-3 for 32-inch trunk. Frame made from $\frac{3}{4} \times \frac{3}{16}$ -inch steel. Width, open, 18 inches; with back raised, 12 inches. Finished in black baking japan. Packed one-half dozen in wood crate.

PRICE LIST

NUMBER	Trunk Size Inches	Weight Each Pounds	Per Dozen
244-1	28	11 $\frac{1}{2}$	\$24.00
244-2	30	11 $\frac{1}{2}$	25.00
244-3	32	11 $\frac{3}{4}$	26.00

Discount.....

No. 245 R-W Steel Folding Luggage Carrier

MADE IN FOUR SIZES

The No. 245 Luggage Carriers are the same construction as No. 244 described above, with the exception that the frame throughout is made of $1 \times \frac{3}{16}$ -inch steel and an additional size is made for 26-inch trunks. Finished in black baking japan. Packed one-half dozen in wood crate.

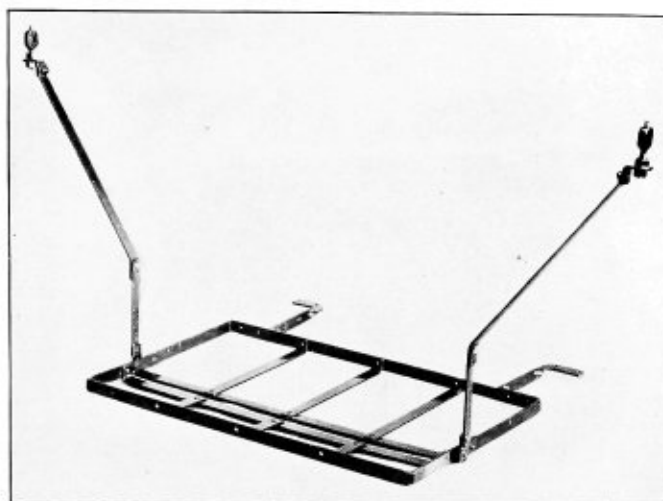
PRICE LIST

NUMBER	Trunk Size Inches	Weight Each Pounds	Per Dozen
245-0	26	14	\$25.40
245-1	28	14 $\frac{1}{2}$	26.40
245-2	30	15 $\frac{1}{2}$	27.40
245-3	32	16 $\frac{1}{2}$	28.40



No. 344 R-W Steel Folding Luggage Carrier

MADE IN THREE SIZES
FOR FORD CARS



FOR TRUNKS, SUIT CASES AND PACKAGES

Manufactured especially for Ford cars. Easily attached. Simple, convenient and durable. Illustration shows carrier open for trunks. When it is desirable to carry suitcases or smaller packages, back of carrier may be raised, as shown on No. 244 on opposite page.

Arms of carrier are attached to "goose-neck" rod on which top rests when down. Made entirely of steel in three sizes, No. 344-0 for 26-inch trunk; No. 344-1 for 28-inch trunk; No. 344-2 for 30-inch trunk. Frame made from $\frac{3}{4} \times \frac{3}{16}$ -inch steel. Width, open, 18 inches; with back raised, 12 inches. Finished in black baking japan. Packed one-half dozen in wood crate.

PRICE LIST

NUMBER	Trunk Size Inches	Weight Each Pounds	Per Dozen
344-0	26	13½	\$24.00
344-1	28	13½	25.00
344-2	30	14	26.00

No. 345 Steel Folding Luggage Carrier

MADE IN THREE SIZES
FOR FORD CARS

Discount.....

No. 345 Luggage Carriers are the same construction as No. 344, described above, with the exception that the frame throughout is made of $1 \times \frac{3}{16}$ -inch steel. Finished in black baking japan. Packed one-half dozen in wood crate.

PRICE LIST

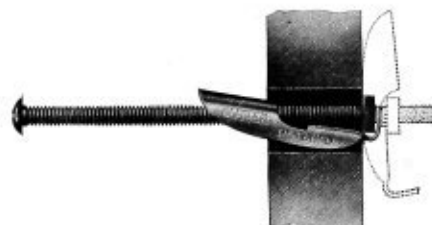
NUMBER	Trunk Size Inches	Weight Each Pounds	Per Dozen
345-0	26	16	\$26.40
345-1	28	16½	27.40
345-2	30	17	28.40

Discount.....



No. 238 R-W Cutter Toggles

(WILCOX No. 237)



QUARTER-INCH TOGGLE, HALF ACTUAL SIZE

PATENTED



METHOD OF INSERTING TOGGLE

Unequalled for securing molding, brackets or any fixtures to wall or ceiling on which screws will not hold, such as tile, metal or marble.

Can be used with the nut or thread outside; or with the nut inside, exposing only the slotted head of the bolt. Easy to put up. Simply bore or chip a hole ($\frac{1}{2}$ -inch is large enough for the $\frac{3}{8}$ -inch size, but Cutter's Toggle holds firmly even in a $\frac{3}{4}$ or 1-inch hole). Insert the toggle as per illustration till the loose bar drops; then pull back and turn the bolt (or nut) till it binds the work.

Has no tiny rivet to limit its strength, hence the regular size (with $\frac{3}{8}$ -inch shank) is as strong as the $\frac{3}{8}$ -inch old style toggle bolt. Adapts itself to fastening objects of varying thicknesses, the 4-inch size meeting most needs.

Made in four sizes: Regular, ($\frac{3}{8}$ -inch shank); Slender, ($\frac{1}{2}$ -inch shank); Quarter-inch and Jumbo ($\frac{5}{8}$ -inch).

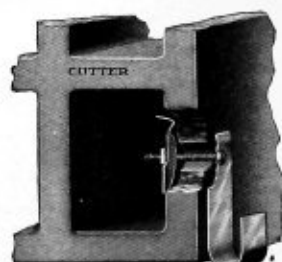
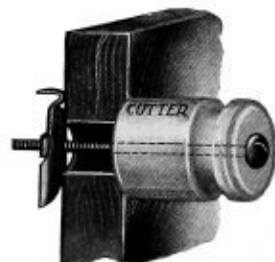
PRICE LIST

Number	Size Inches	Weight Each Ounces	PRICE PER PACKAGE			
			Package of 10	Box of 25	Box of 100	1000
238-1	$\frac{1}{2} \times 3$	$\frac{7}{16}$	\$.40	\$.90	\$3.40	\$32.00
238-2	$\frac{1}{2} \times 4$	$\frac{7}{8}$	.50	1.00	3.80	35.00
238-3	$\frac{1}{2} \times 6$	1	.60	1.30	4.40	40.00
238-4	$\frac{3}{8} \times 3$	$\frac{1}{4}$	.44	1.00	3.60	34.00
238-5	$\frac{3}{8} \times 4$	$\frac{1}{4}$	.50	1.10	4.00	36.00
238-6	$\frac{3}{8} \times 6$	$\frac{1}{4}$	.60	1.40	5.00	45.00
238-7	$\frac{1}{2} \times 4$	$1\frac{1}{4}$	.56	1.20	4.40	40.00
238-8	$\frac{1}{2} \times 6$	$1\frac{1}{2}$	.60	1.40	5.20	48.00
238-9	$\frac{3}{4} \times 4$	2	.70	1.60	6.00	55.00
238-10	$\frac{3}{4} \times 6$	$2\frac{1}{4}$	.80	1.90	7.00	65.00

Add 20 per cent for blued heads; 50 per cent for nicked heads.

NOTE—Always specify by number.

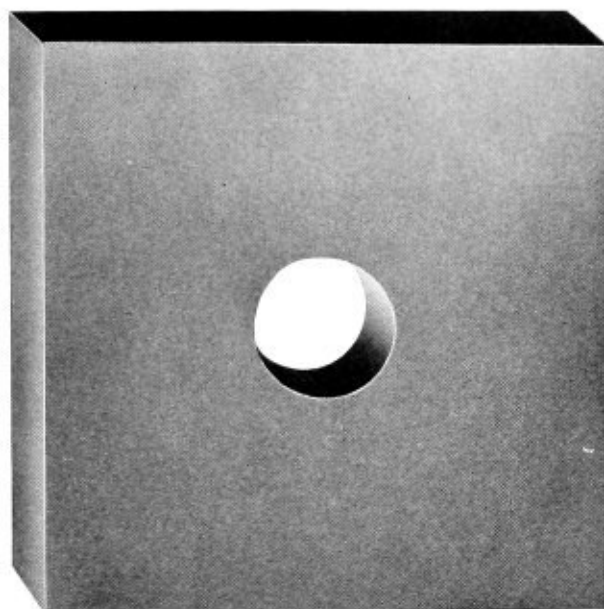
Discount.....



The above illustration shows some uses of Cutter Toggles. The third illustration shows a Cutter Toggle in use on a tile wall. Note how the surplus thread does not need to be cut off.



No. 366 R-W Heavy Square Steel Washers



PRICE LIST

Diameter of Bolt	Diameter Hole in Inches	Size, Inches	Thickness Inches	Price per 100
$\frac{1}{4}$	$\frac{3}{8}$	$2\frac{1}{4} \times 2\frac{1}{4}$	$\frac{3}{16}$	\$3.50
$\frac{1}{2}$	$\frac{1}{2}$	3×3	$\frac{1}{4}$	4.50
$\frac{3}{4}$	$\frac{3}{4}$	$3\frac{1}{2} \times 3\frac{1}{2}$	$\frac{1}{2}$	5.00

NOTE—Always specify size of bolt.

Packed in bulk.

Discount.....



No. 266 R-W Steel Washers

PRICE LIST

Diameter of Bolt	Diameter Hole in Inches	Diameter in Inches	Thickness Gauge Number	Price per 100 Pounds
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{16}$	18	\$14.00
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{8}$	16	12.20
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	16	11.40
$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	14	10.50
$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	14	9.70
$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{1}{4}$	12	9.20

Packed in 200-pound kegs or in 5-pound boxes.

NOTE—Always specify size of bolt.

Discount.....

No. 285 R-W Savetime Screw Clamp

MADE IN FOUR SIZES



Strong, well designed. Malleable iron frame. Steel screw. Bronze nut. Instantaneous adjustment. A slight movement of the nut causes it to engage with the screw. Reversing the movement releases the screw.

Made in four sizes, 4 inches, 6 inches, 8 inches and 10 inches.

Anti-rust finish. Packed in bulk. Weight per dozen, 4-inch size, 21 pounds; 6-inch size, 29 pounds; 8-inch size, 48 pounds; 10-inch size, 60 pounds.

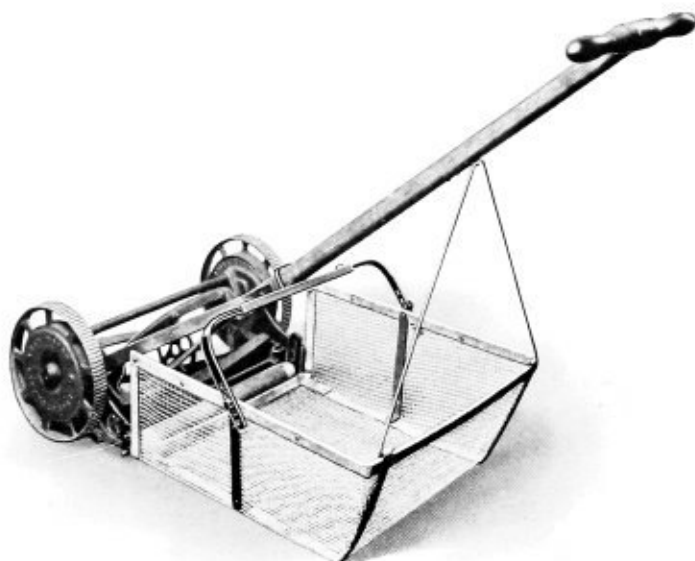
PRICE LIST

No. 285 4-inch Clamp, per dozen.....	\$ 5.00
No. 285 6-inch Clamp, per dozen.....	7.50
No. 285 8-inch Clamp, per dozen.....	11.00
No. 285 10-inch Clamp, per dozen.....	14.00

Discount.....

No. 460 R-W Sensible Grass Catcher

MADE IN TWO SIZES



Made of strong galvanized wire netting, 3 x 3-inch mesh. Bottom strongly reinforced with two metal strips. Metal strips also reinforce the top and front edges of basket, giving it great rigidity and strength. Can be quickly applied to any lawn mower. Grass can be dumped by simply raising end of catcher. Grass cannot work forward in catcher and clog knives, which is true of other catchers. Spring catch which holds supporting rod of basket can be attached to handle in proper position for convenience of tall or short operators. Lasts four times as long as ordinary cloth catchers.

Made in two sizes, No. 460-1, for mowers 14 and 16 inches wide; No. 460-2, for mowers 18 and 20 inches wide. Packed one dozen in a crate. Weight per dozen, No. 1 size, 72 pounds; No. 2 size, 80 pounds.

PRICE LIST

No. 460-1 or No. 460-2 Grass Catcher, per dozen.....\$16.00

Discount.....



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